

Appendix E: Test Data for E-UTRA Band 41

Product Name: Tablet

Trade Mark: LAVA & XOLO

Test Model: T81

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

E.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.63	22.13	PASS
		1	12	22.73	22.22	PASS
		1	24	22.83	22.31	PASS
		12	0	22.79	21.96	PASS
		12	6	22.88	21.98	PASS
		12	13	22.83	21.96	PASS
		25	0	21.91	21.02	PASS
	MCH	1	0	22.66	22.15	PASS
		1	12	22.78	22.19	PASS
		1	24	22.81	22.28	PASS
		12	0	22.86	21.92	PASS
		12	6	22.86	21.99	PASS
		12	13	22.80	21.98	PASS
		25	0	21.92	21.03	PASS
	HCH	1	0	22.67	22.15	PASS
		1	12	22.75	22.19	PASS
		1	24	22.81	22.31	PASS
		12	0	22.83	21.92	PASS
		12	6	22.87	21.99	PASS
		12	13	22.80	21.95	PASS
		25	0	21.89	21.04	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.64	22.10	PASS
		1	24	22.83	22.30	PASS
		1	49	22.29	21.81	PASS
		25	0	21.91	21.02	PASS
		25	12	21.74	20.84	PASS
		25	25	21.51	20.66	PASS
		50	0	21.70	20.79	PASS
	MCH	1	0	22.65	22.11	PASS
		1	24	22.82	22.27	PASS
		1	49	22.31	21.81	PASS
		25	0	21.91	21.05	PASS
		25	12	21.74	20.82	PASS
		25	25	21.54	20.66	PASS
		50	0	21.63	20.80	PASS
	HCH	1	0	22.61	22.15	PASS
		1	24	22.76	22.29	PASS
		1	49	22.34	21.84	PASS
		25	0	21.89	21.02	PASS
		25	12	21.75	20.81	PASS
		25	25	21.53	20.66	PASS
		50	0	21.67	20.80	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.70	22.12	PASS
		1	37	22.48	21.94	PASS
		1	74	22.51	22.00	PASS
		37	0	21.91	20.90	PASS
		37	18	21.88	20.92	PASS
		37	38	21.90	20.88	PASS
		75	0	20.93	20.93	PASS
	MCH	1	0	22.69	22.11	PASS
		1	37	22.52	22.00	PASS
		1	74	22.51	22.00	PASS
		37	0	21.87	20.90	PASS
		37	18	21.85	20.90	PASS
		37	38	21.84	20.89	PASS
		75	0	20.87	20.91	PASS
	HCH	1	0	22.62	22.10	PASS
		1	37	22.46	22.01	PASS
		1	74	22.53	21.96	PASS
		37	0	21.88	20.91	PASS
		37	18	21.89	20.88	PASS
		37	38	21.87	20.90	PASS
		75	0	20.93	20.90	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.65	22.10	PASS
		1	49	22.29	21.79	PASS
		1	99	22.27	21.81	PASS
		50	0	21.73	20.76	PASS
		50	25	21.69	20.82	PASS
		50	50	21.69	20.77	PASS
		100	0	20.80	20.80	PASS
	MCH	1	0	22.66	22.13	PASS
		1	49	22.32	21.82	PASS
		1	99	22.31	21.85	PASS
		50	0	21.66	20.79	PASS
		50	25	21.67	20.79	PASS
		50	50	21.68	20.85	PASS
		100	0	20.83	20.83	PASS
	HCH	1	0	22.64	22.10	PASS
		1	49	22.34	21.82	PASS
		1	99	22.31	21.82	PASS
		50	0	21.68	20.80	PASS
		50	25	21.68	20.84	PASS
		50	50	21.69	20.82	PASS
		100	0	20.82	20.80	PASS

E2 Peak-to-Average Ratio

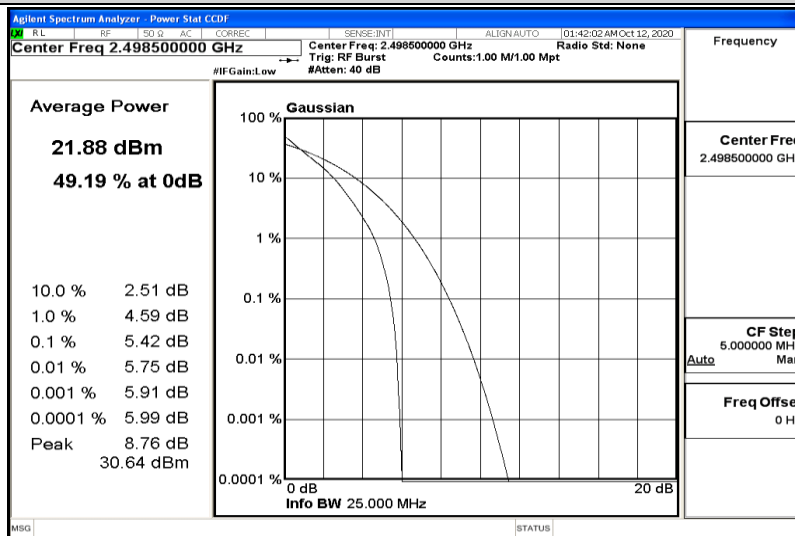
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.42	<13	PASS
	MCH	5.24	<13	PASS
	HCH	5.21	<13	PASS
16QAM	LCH	6.01	<13	PASS
	MCH	6.05	<13	PASS
	HCH	6.04	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.07	<13	PASS
	MCH	5.19	<13	PASS
	HCH	5.12	<13	PASS
16QAM	LCH	5.95	<13	PASS
	MCH	6.10	<13	PASS
	HCH	6.01	<13	PASS

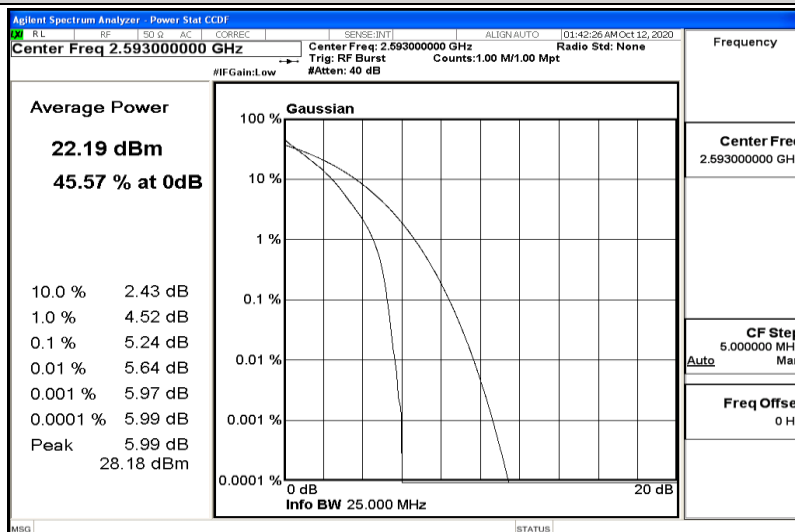
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.26	<13	PASS
	MCH	5.34	<13	PASS
	HCH	5.27	<13	PASS
16QAM	LCH	6.00	<13	PASS
	MCH	6.08	<13	PASS
	HCH	5.97	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.15	<13	PASS
	MCH	5.18	<13	PASS
	HCH	5.03	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	6.05	<13	PASS
	HCH	5.92	<13	PASS

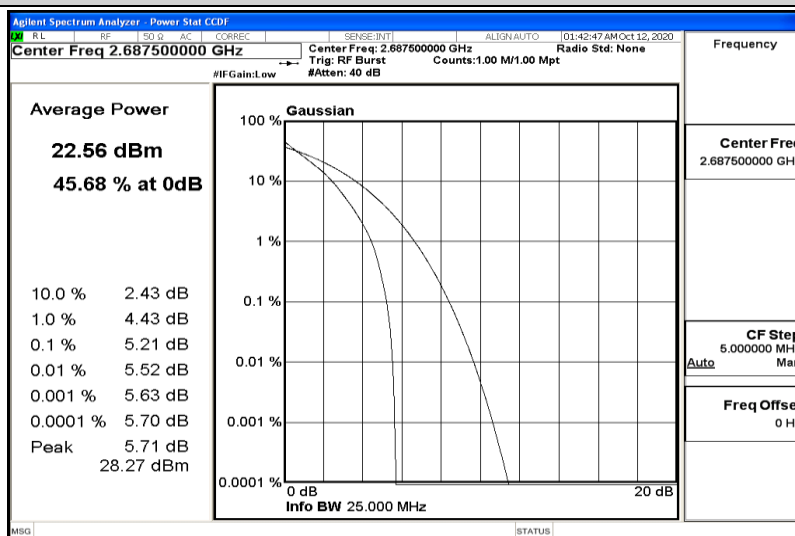
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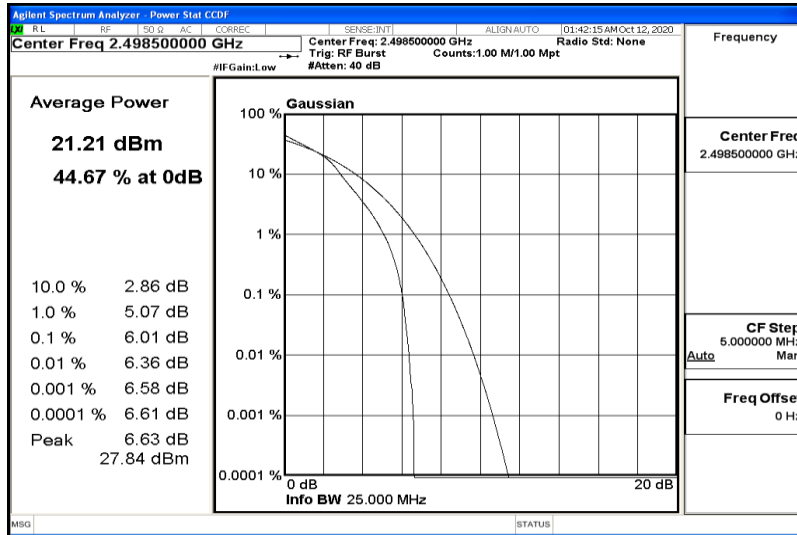
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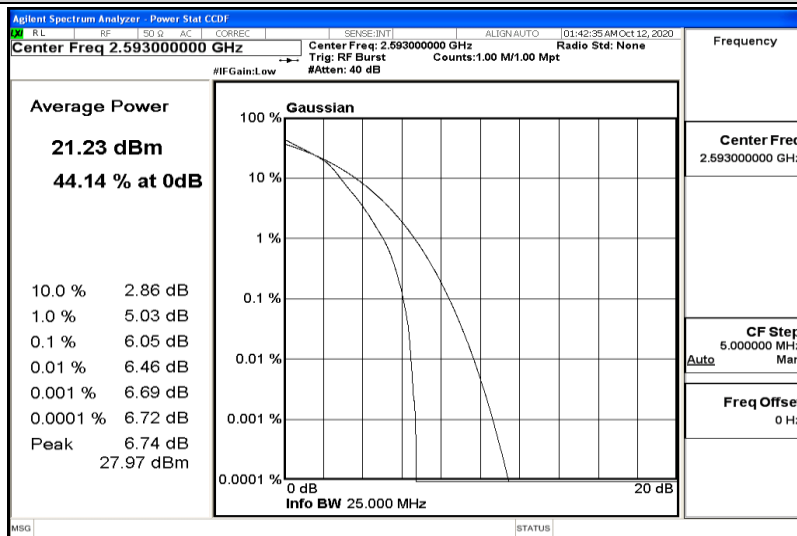
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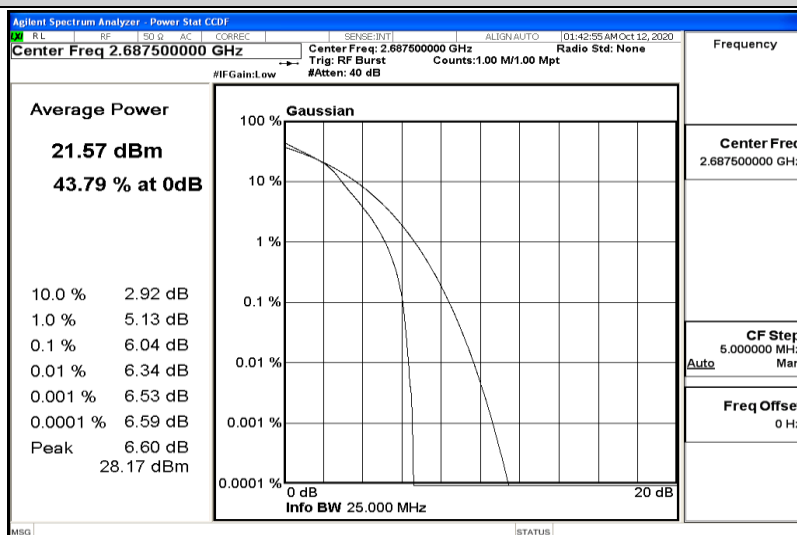
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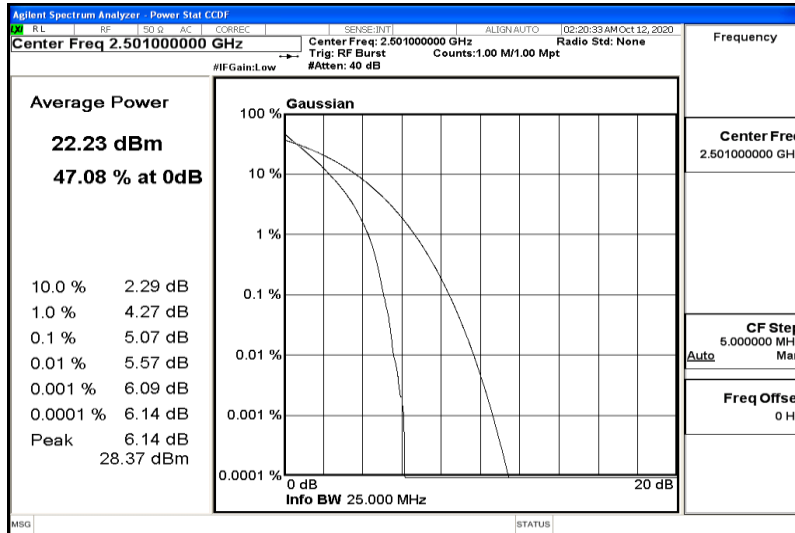
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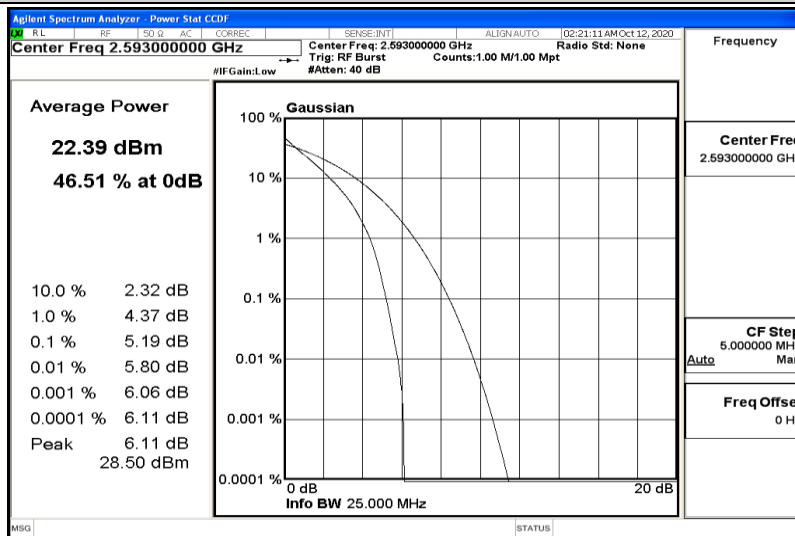
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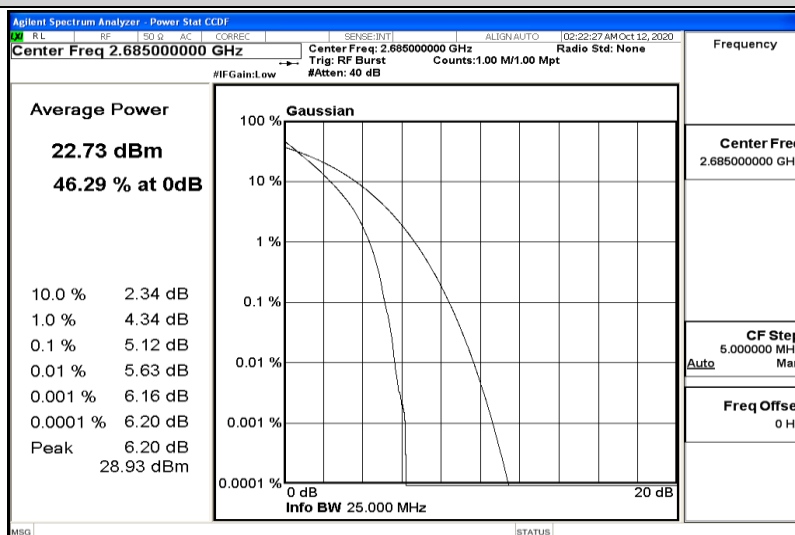
Band41-10MHz-QPSK-39700-50RB#0



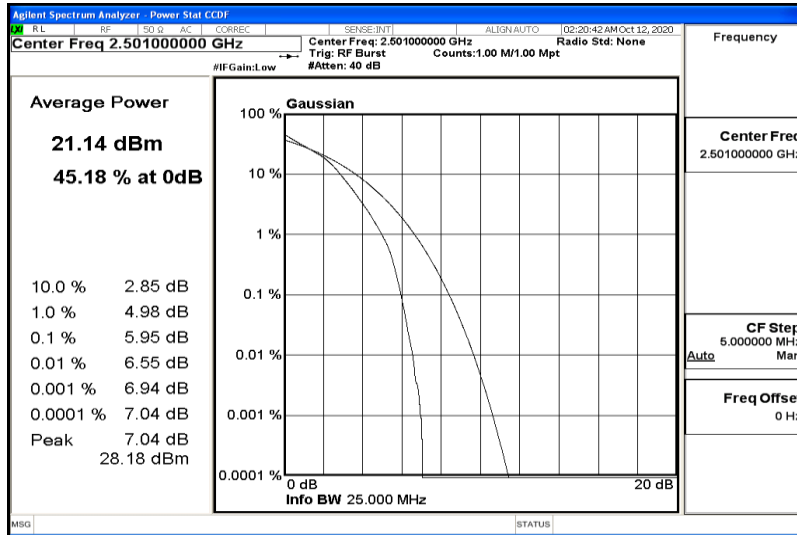
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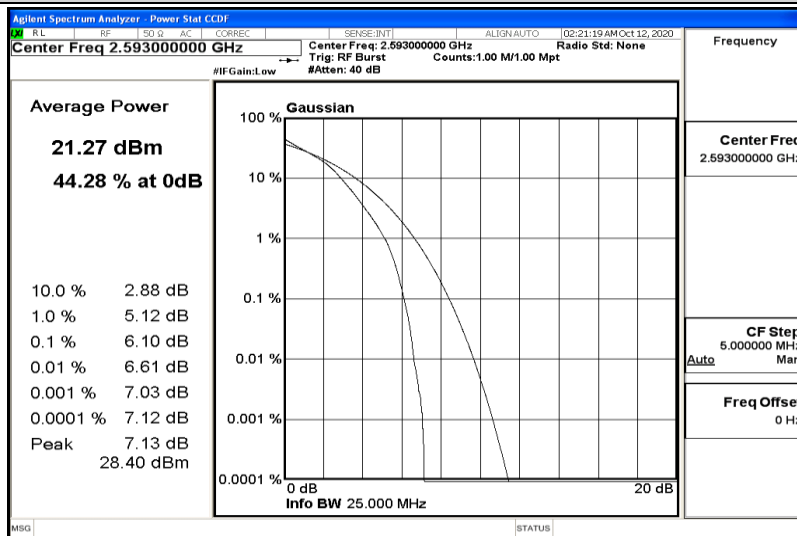
Band41-10MHz-QPSK-41540-50RB#0



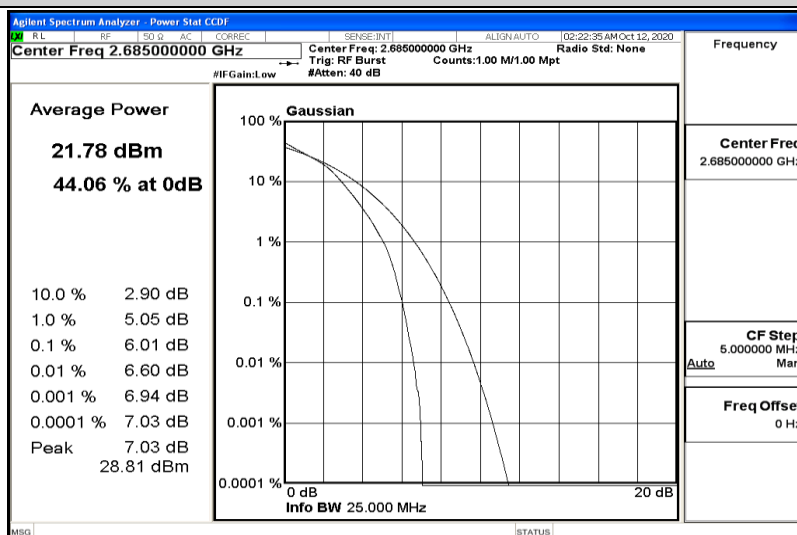
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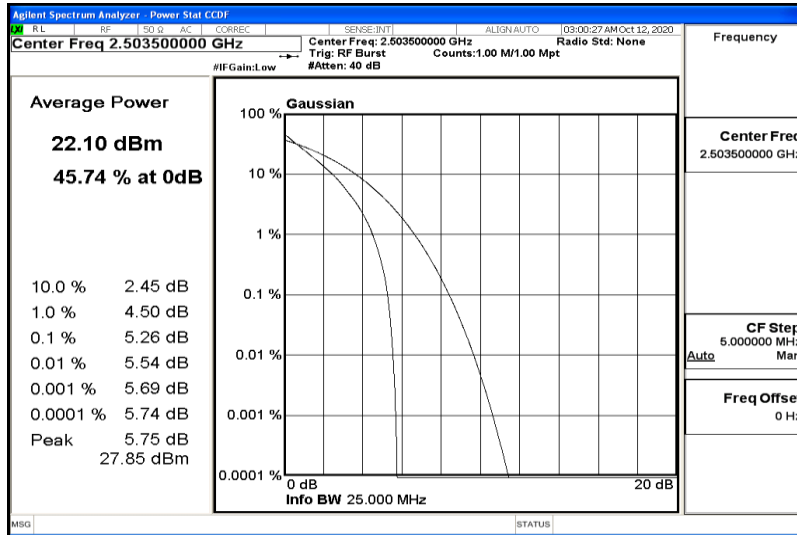
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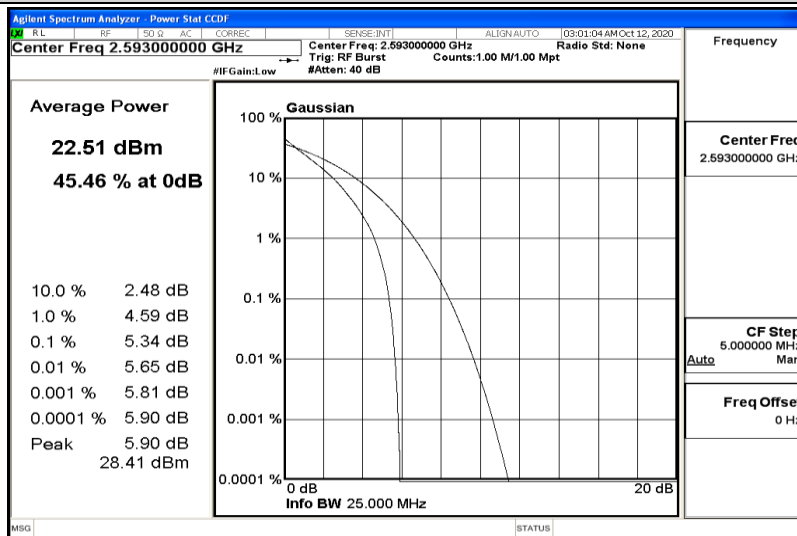
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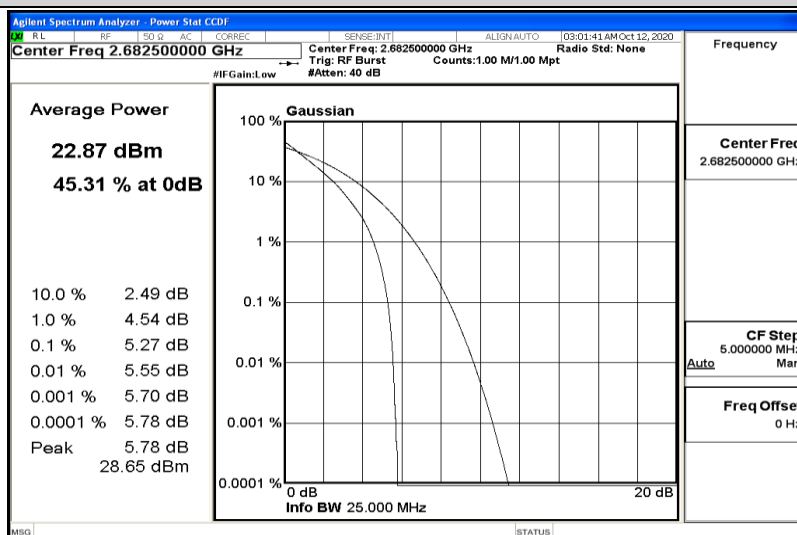
Band41-15MHz-QPSK-39725-75RB#0



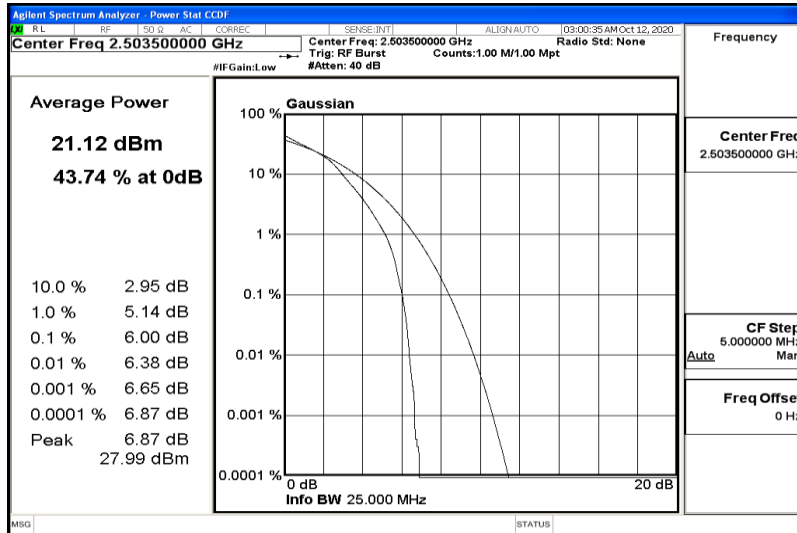
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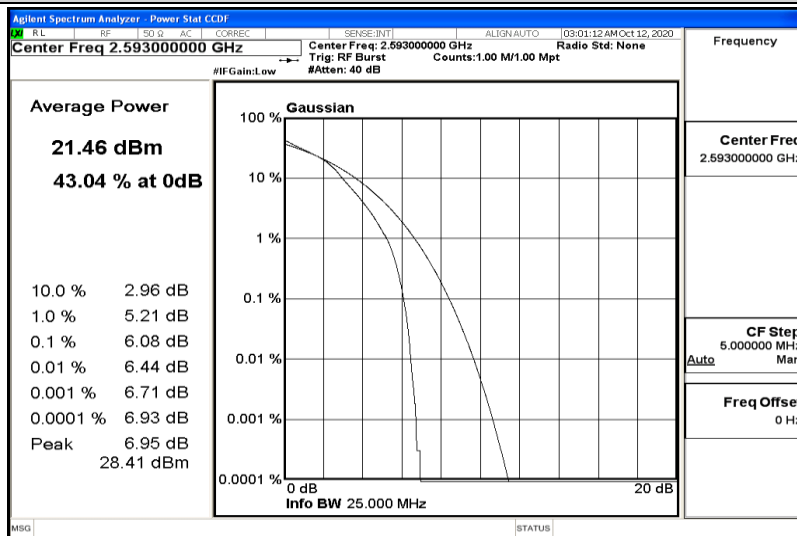
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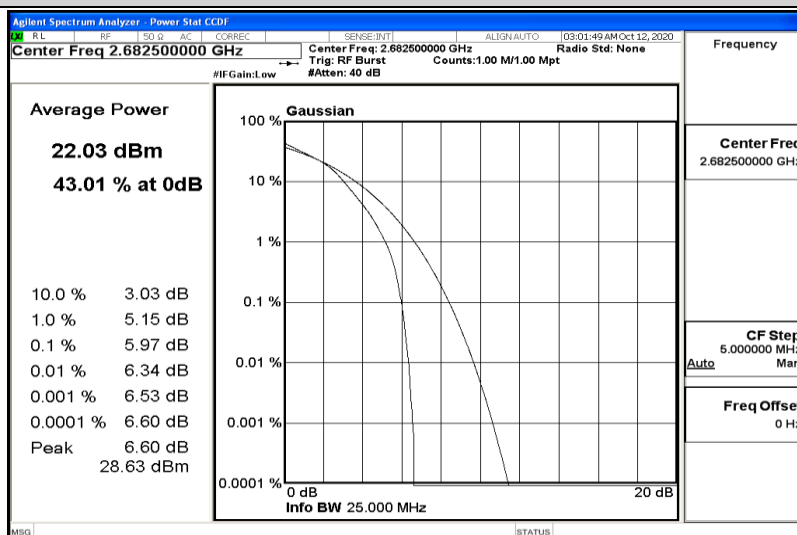
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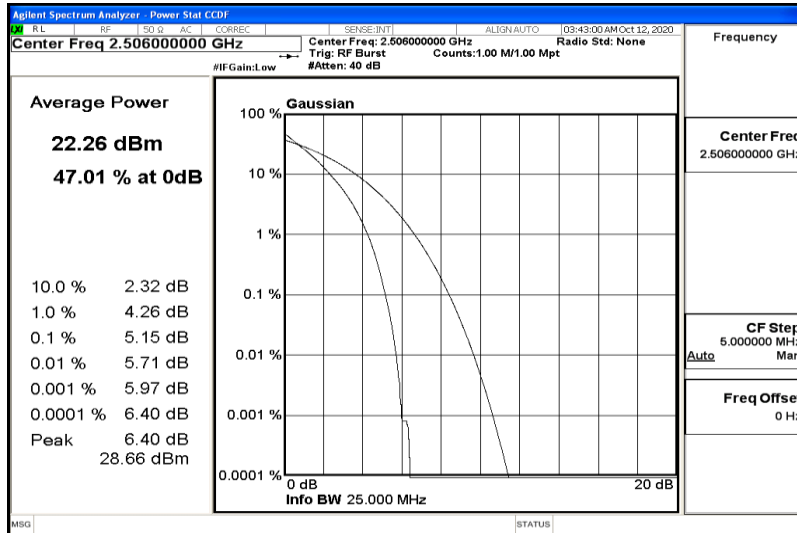
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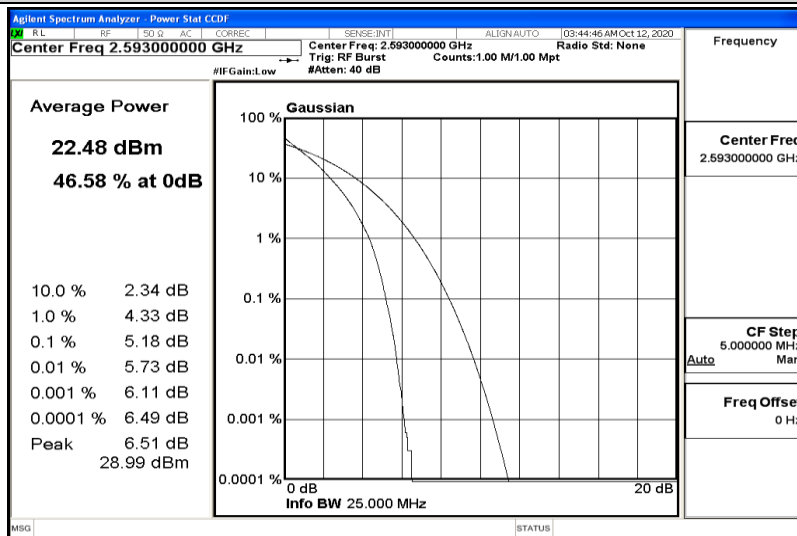
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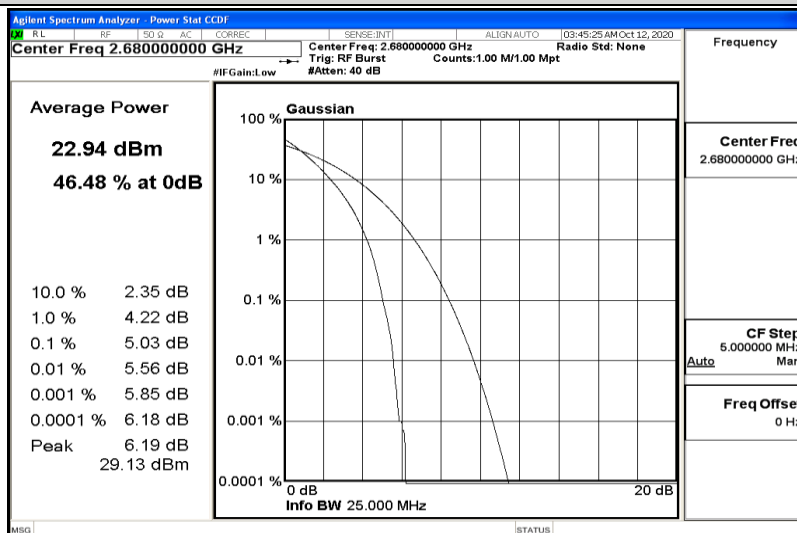
Band41-20MHz-QPSK-39750-100RB#0



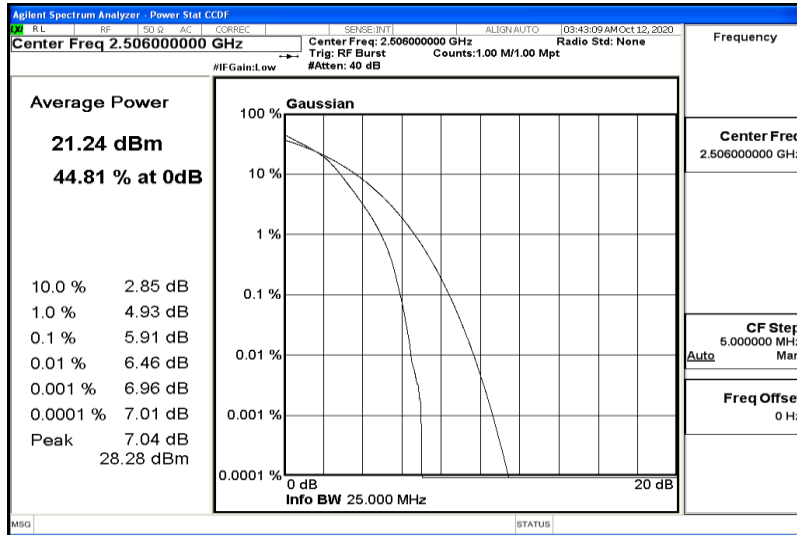
Band41-20MHz-QPSK-40620-100RB#0



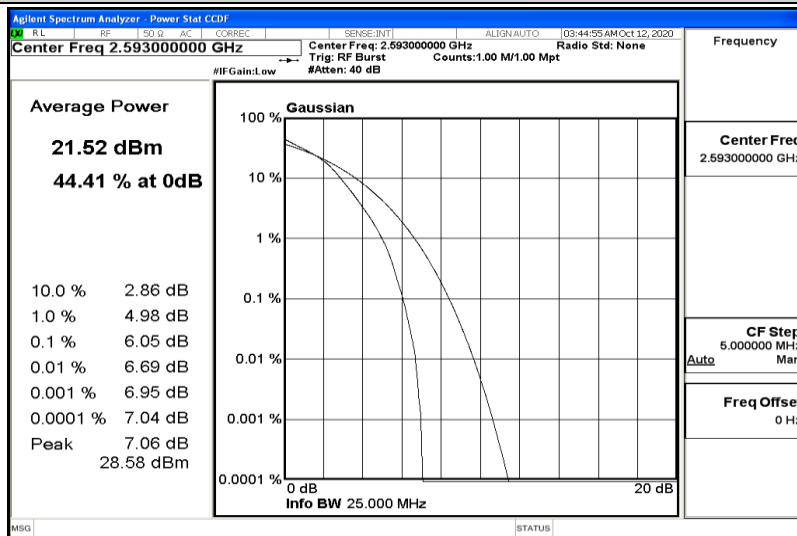
Band41-20MHz-QPSK-41490-100RB#0



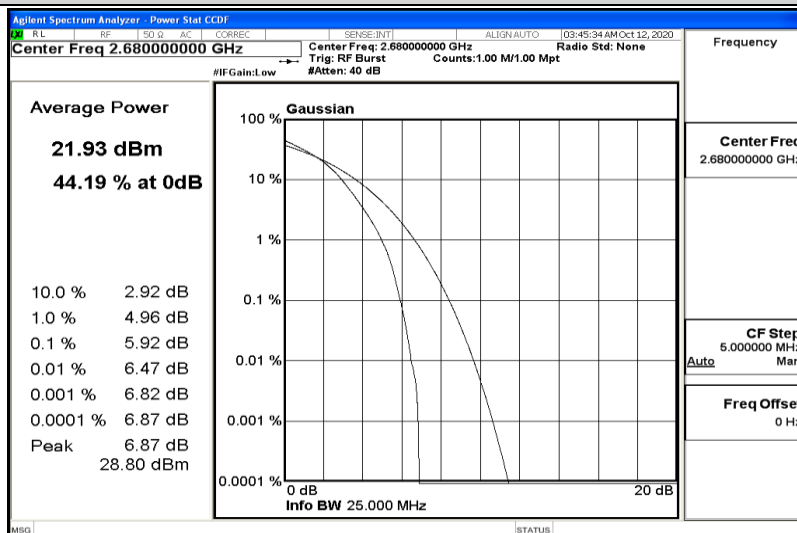
Band41-20MHz-16QAM-39750-100RB#0



Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0



E.3 26dB Bandwidth and Occupied Bandwidth

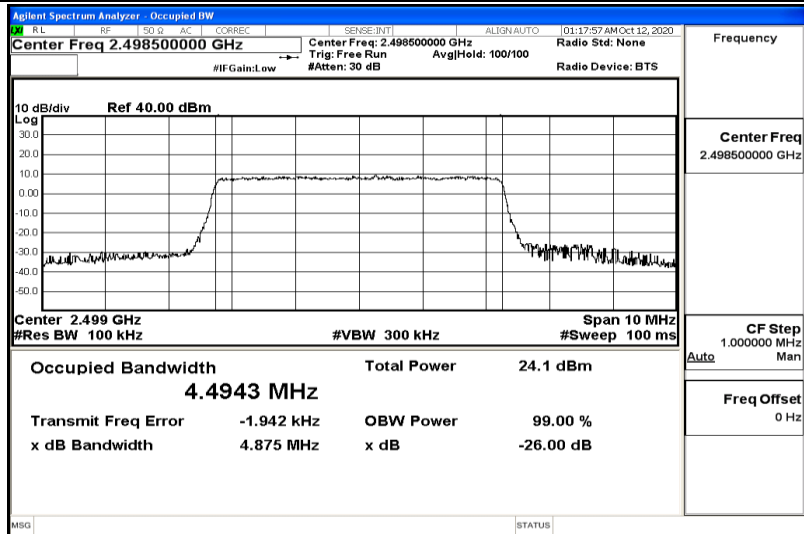
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4943	4.875	PASS
	MCH	4.5036	4.867	PASS
	HCH	4.5004	4.815	PASS
16QAM	LCH	4.4904	4.857	PASS
	MCH	4.4910	4.845	PASS
	HCH	4.4988	4.843	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9510	9.554	PASS
	MCH	8.9490	9.578	PASS
	HCH	8.9737	9.494	PASS
16QAM	LCH	8.9469	9.512	PASS
	MCH	8.9541	9.516	PASS
	HCH	8.9506	9.513	PASS

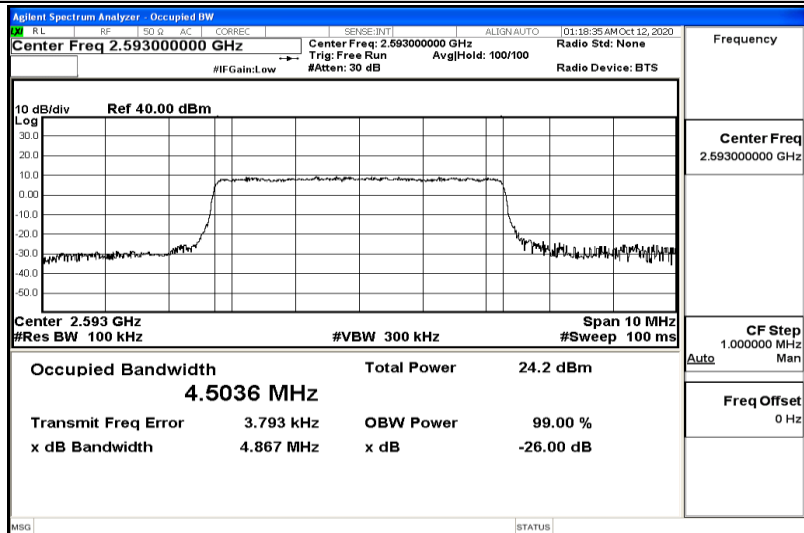
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.429	14.24	PASS
	MCH	13.435	14.25	PASS
	HCH	13.434	14.24	PASS
16QAM	LCH	13.428	14.25	PASS
	MCH	13.448	14.25	PASS
	HCH	13.434	14.24	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.878	18.93	PASS
	MCH	17.890	18.93	PASS
	HCH	17.873	18.93	PASS
16QAM	LCH	17.888	18.93	PASS
	MCH	17.923	18.94	PASS
	HCH	17.857	18.94	PASS

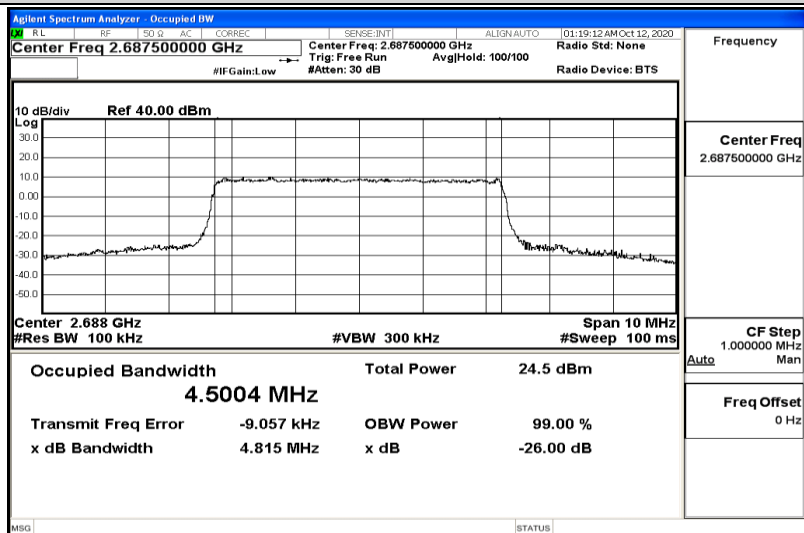
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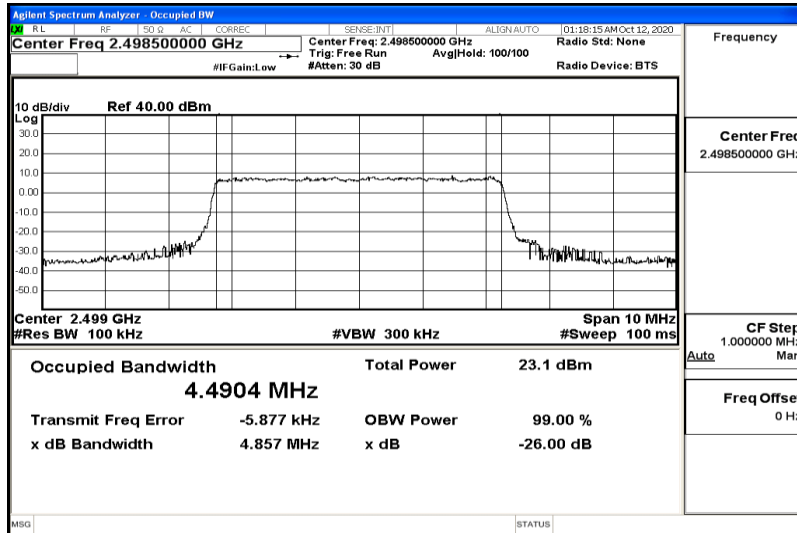
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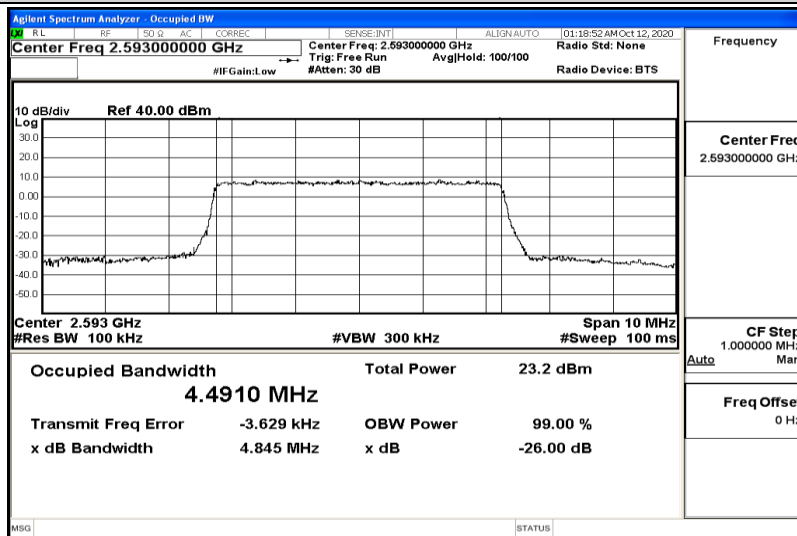
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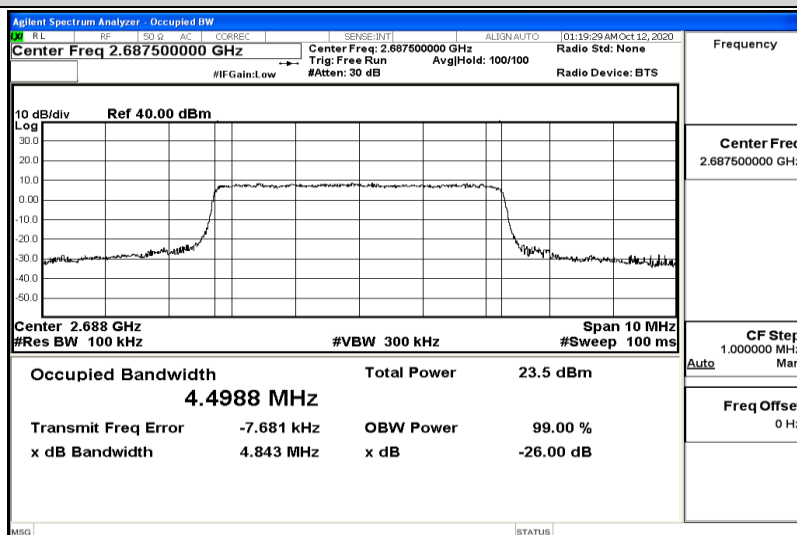
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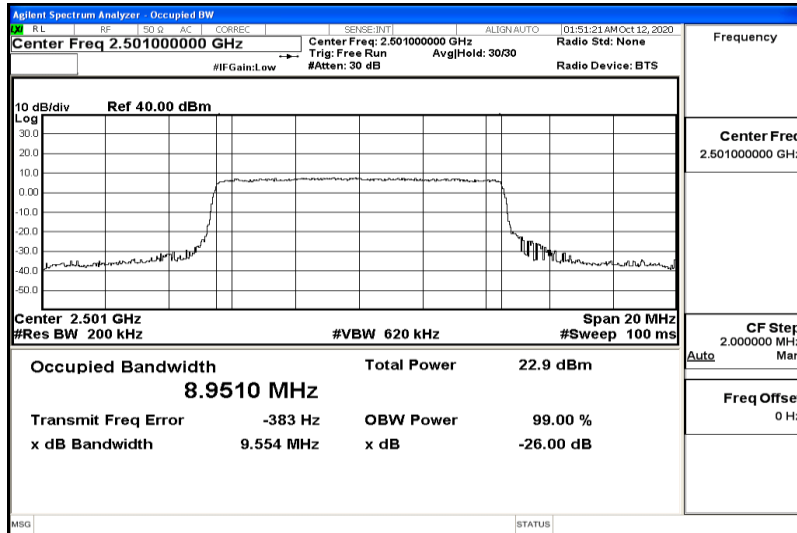
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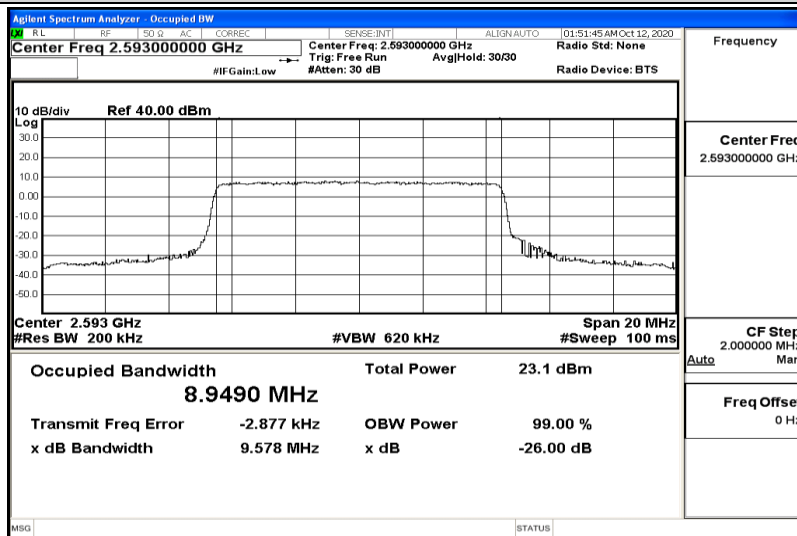
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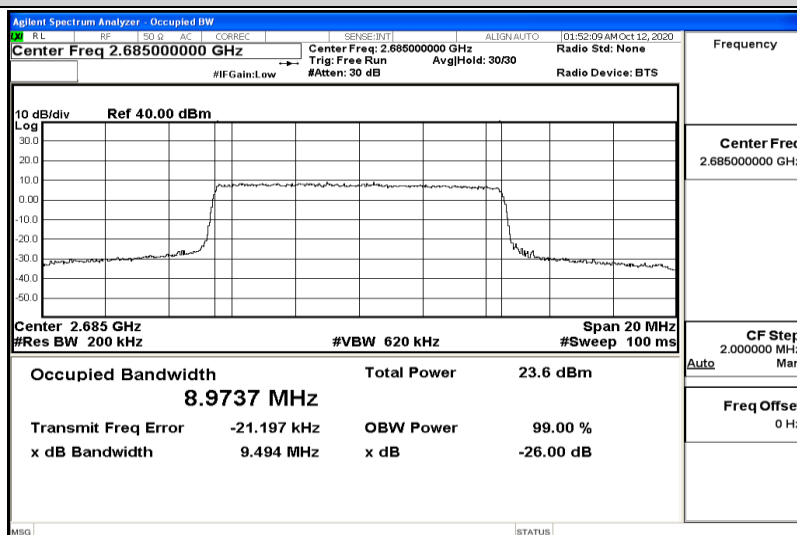
Band41-10MHz-QPSK-39700-50RB#0-8.9510



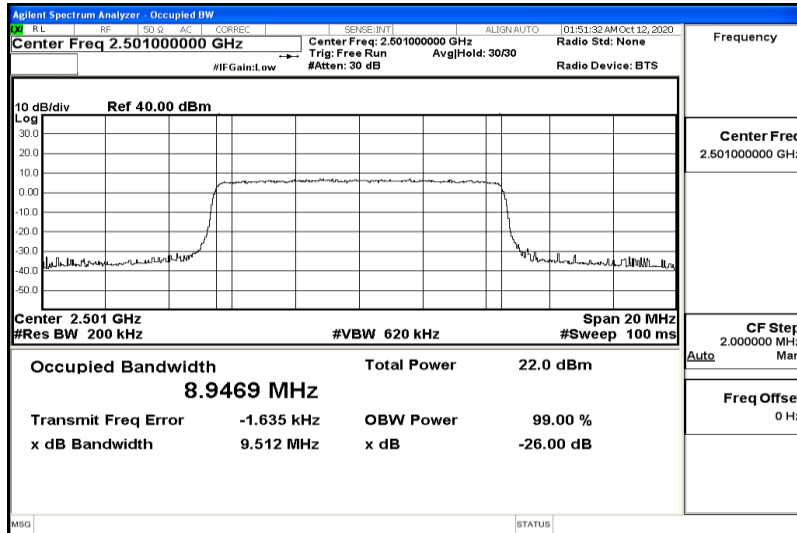
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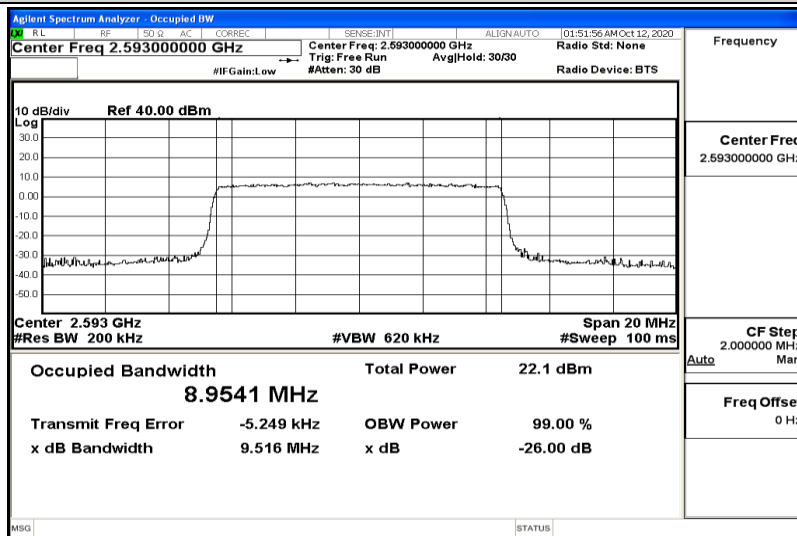
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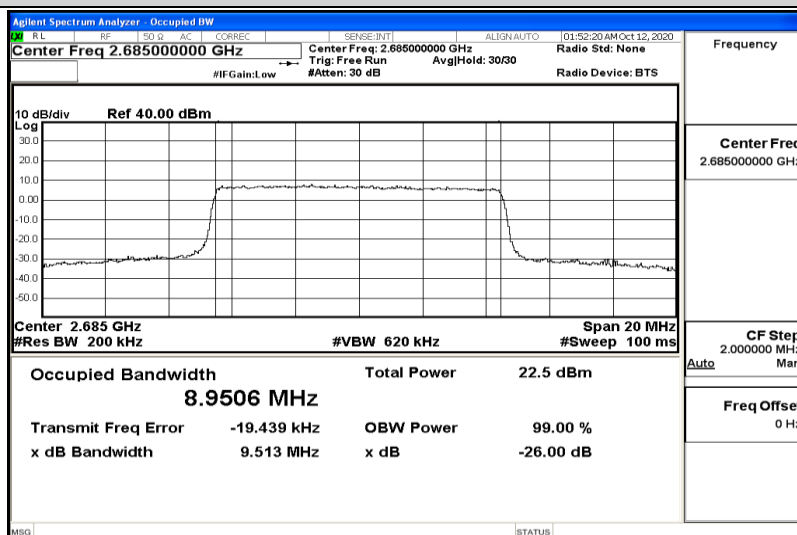
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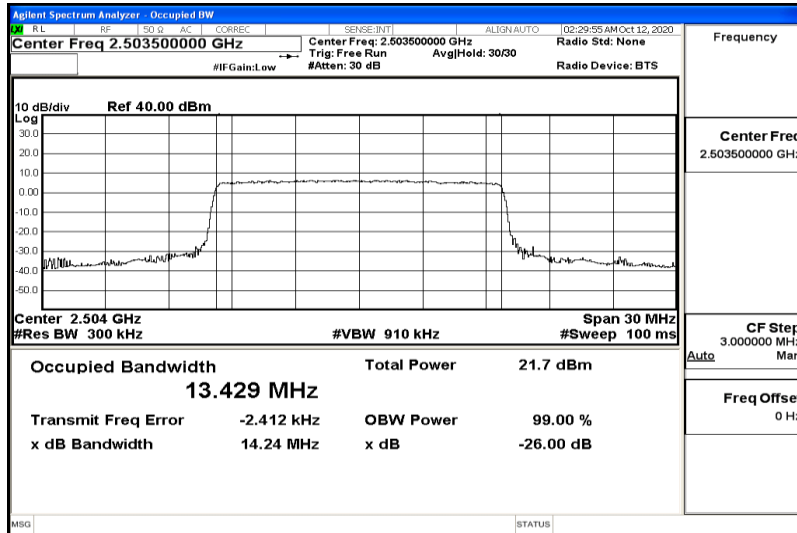
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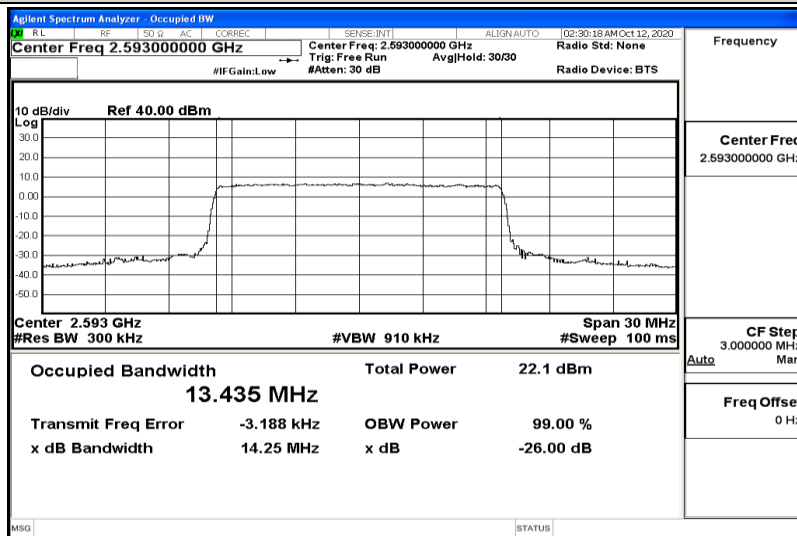
Band41-10MHz-16QAM-41540-50RB#0-8.9506



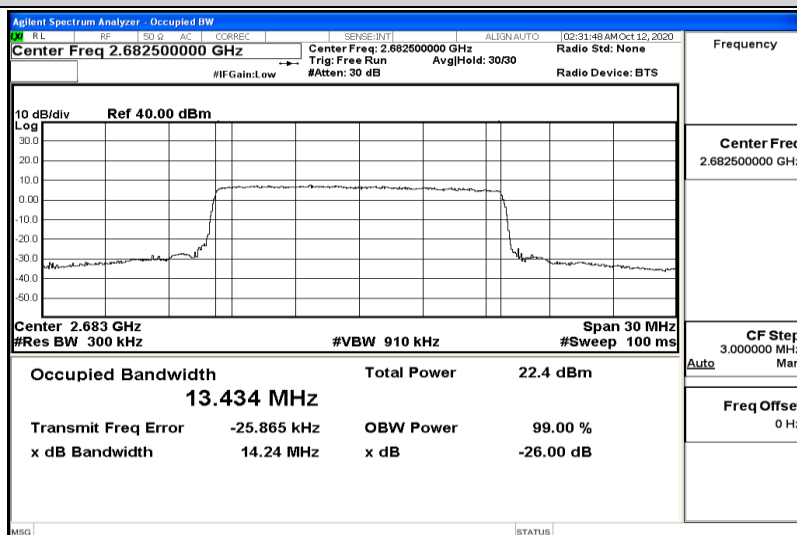
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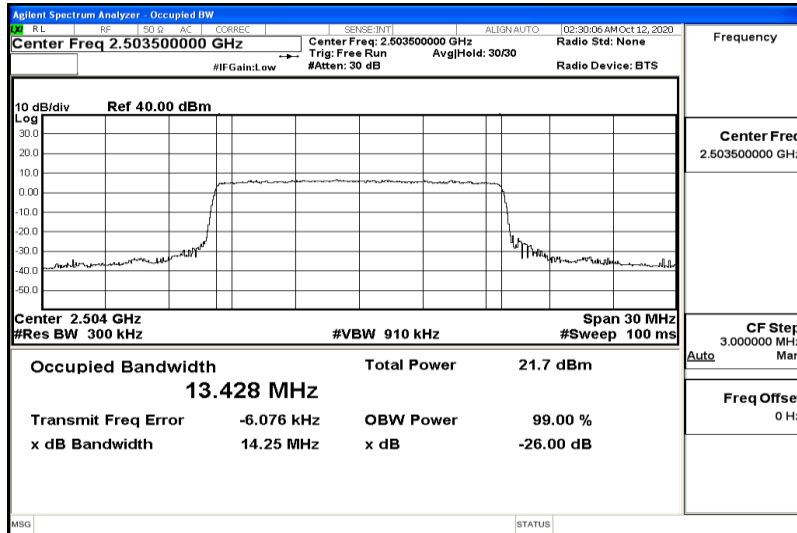
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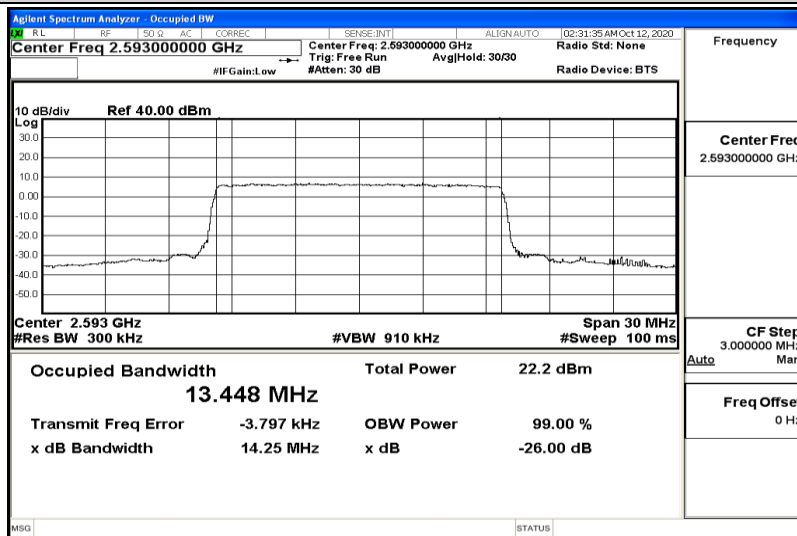
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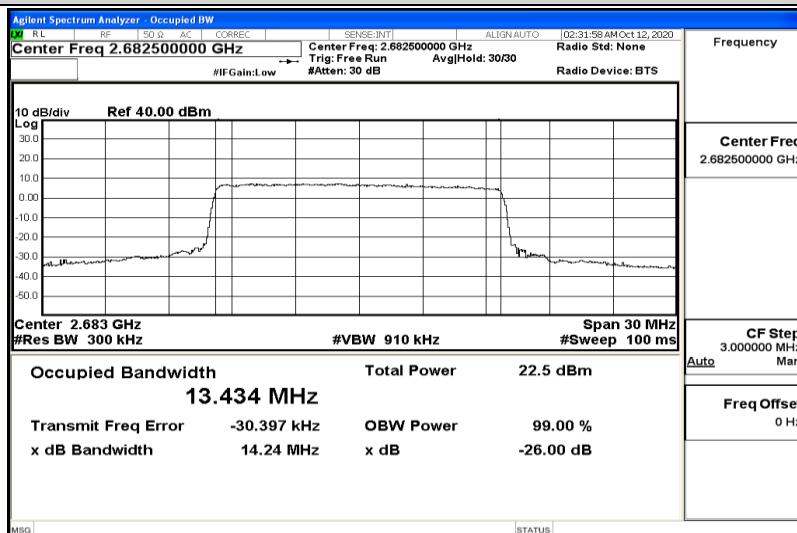
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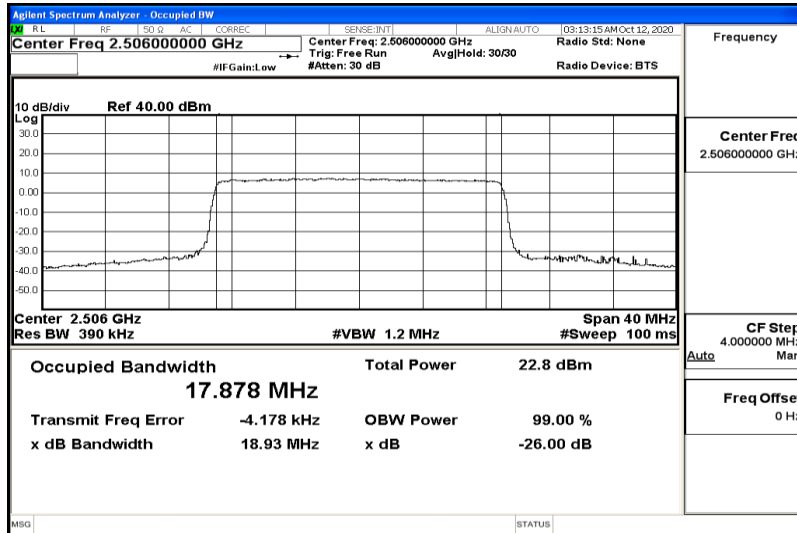
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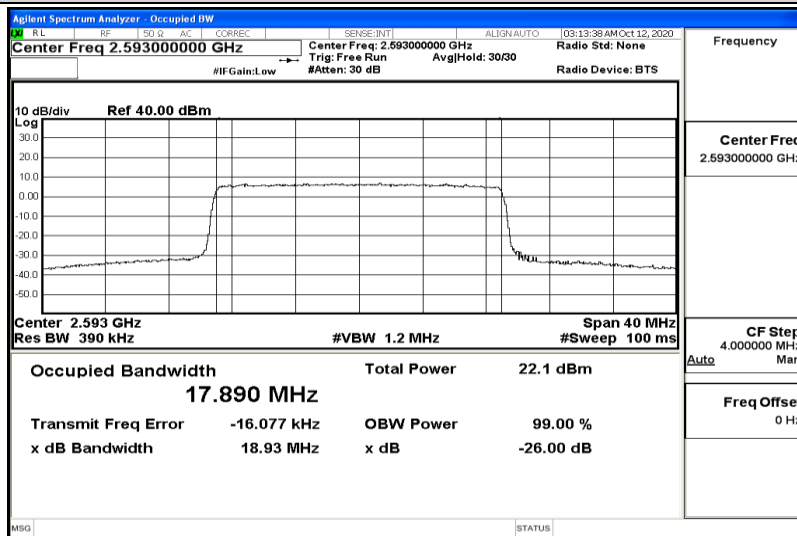
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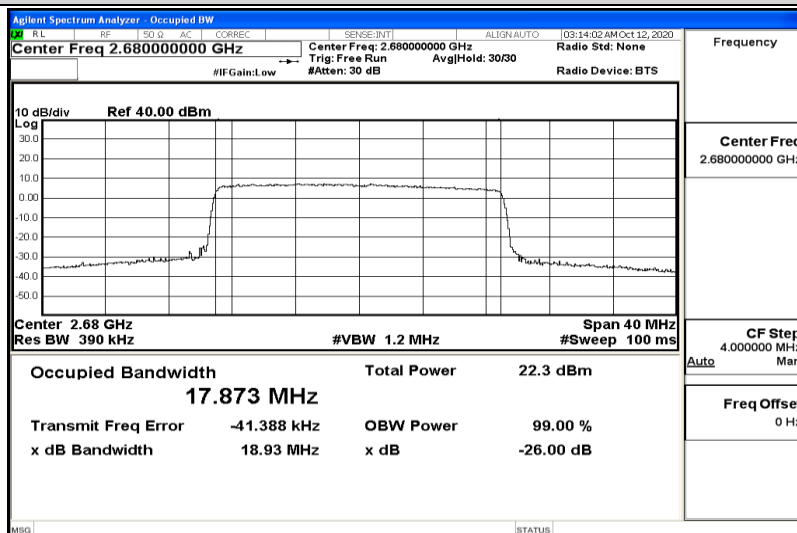
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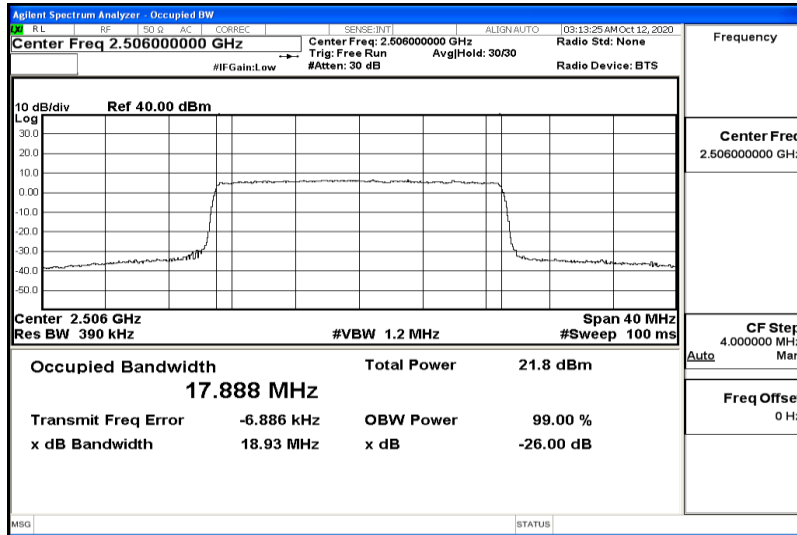
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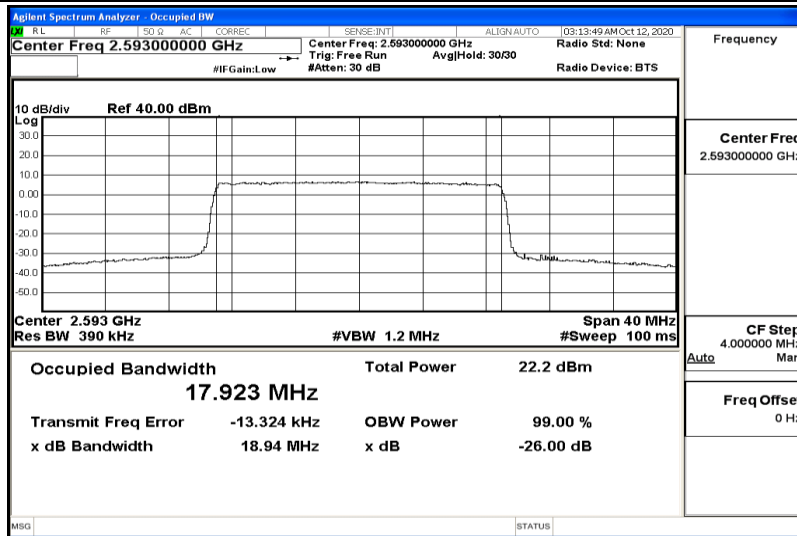
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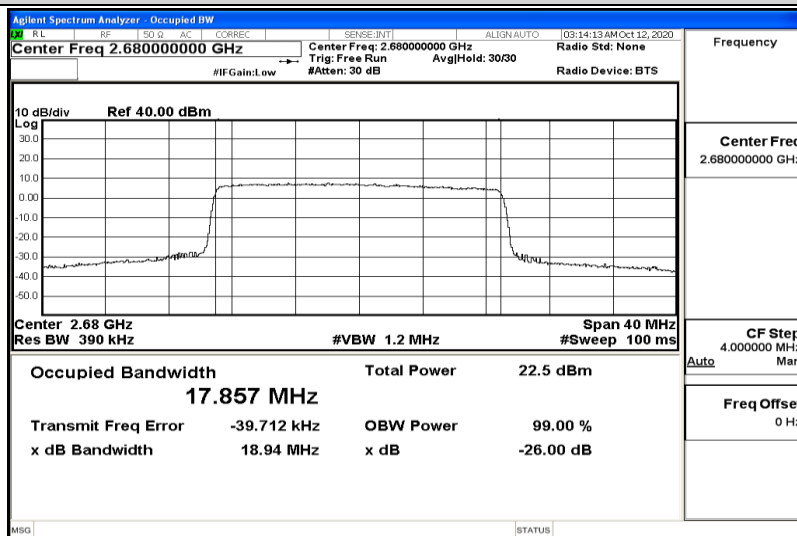
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Band41-20MHz-16QAM-40620-100RB#0-17.923

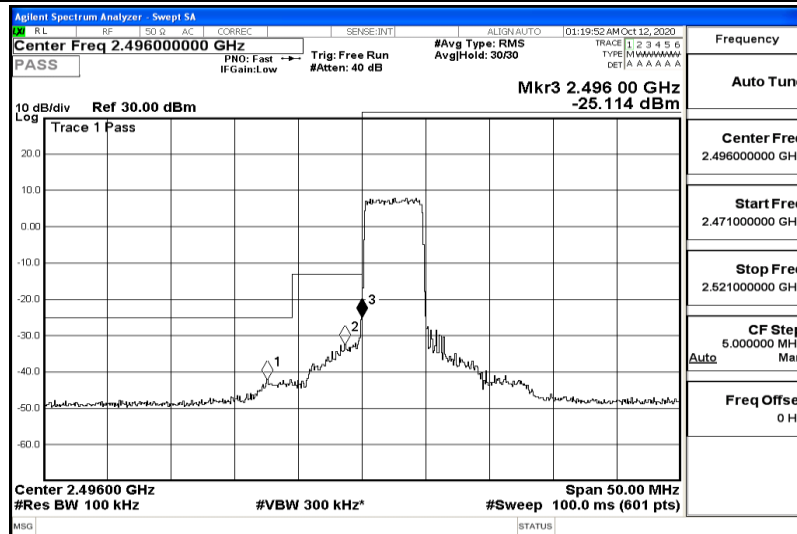


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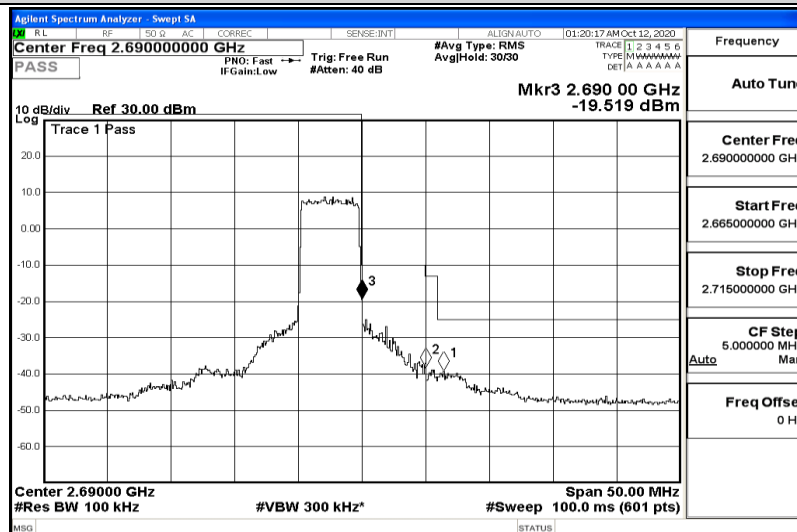


E.4 Band Edge

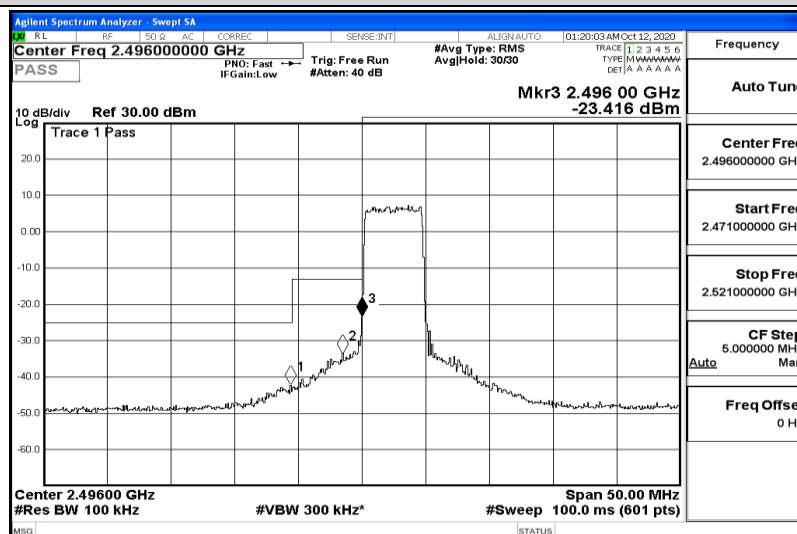
Band41-5MHz-QPSK-39675-25RB#0



Band41-5MHz-QPSK-41565-25RB#0



Band41-5MHz-16QAM-39675-25RB#0



Agilent Spectrum Analyzer - Sweep 5A

RL HS F 50.0 AC CORREC SENSE:INT ALIGN: AUTO 101:20:29 AM Oct 12, 2020

Center Freq 2.690000000 GHz

PASS PNO: Fast IF Gain: Low Trig: Free Run #Atten: 40 dB #Avg Type: RMS AvgHold: 30/30

Frequency Auto Tun

Center Freq 2.690000000 GHz

Start Freq 2.665000000 GHz

Stop Freq 2.715000000 GHz

CF Stop 5.000000 MHz

Auto

Freq Offset 0 Hz

10 dB/div Ref 30.00 dBm

Log

Trace 1 Pass

Mkr3 2.690 00 GHz -20.327 dBm

Center 2.690000 GHz #Res BW 100 kHz #VBW 300 kHz* #Sweep 100.0 ms (601 pts)

MSG STATUS

Agilent Spectrum Analyzer - Sweep SA

SP: 50.000 MHz CORREC: SENSE: INT1 ALIGN: AUTO 01:52:42 AM Oct 12, 2020

Center Freq 2.496000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Avg Type: RMS Avg/Hold: 30/30 TRACE 1 [2 3 4 5 6] TYPE: [M] WWWWMMMM DET: [A] A A A A A A

PASS

Mkr3 2.496 00 GHz -24.897 dBm

10 dB/div Ref 30.00 dBm

Log

Center Freq 2.496000000 GHz

Start Freq 2.471000000 GHz

Stop Freq 2.521000000 GHz

CF Stop 5.000000 MHz

Auto

Freq Offset 0 Hz

Center 2.49600 GHz #Res BW 200 kHz #VBW 620 kHz* Span 50.00 MHz #Sweep 100.0 ms (601 pts)

MSG STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.69000000 GHz

Span 50.00 MHz

Ref 30.00 dBm

Trace 1 Pass

Log

20.0

10.0

0.00

-10.0

-20.0

-30.0

-40.0

-50.0

-60.0

3

2

1

Center 2.690000 GHz

#Res BW 200 kHz

#VBW 620 kHz

Span 50.00 MHz

#Sweep 100.0 ms (601 pts)

Auto

Auto Tun

Center Freq 2.69000000 GHz

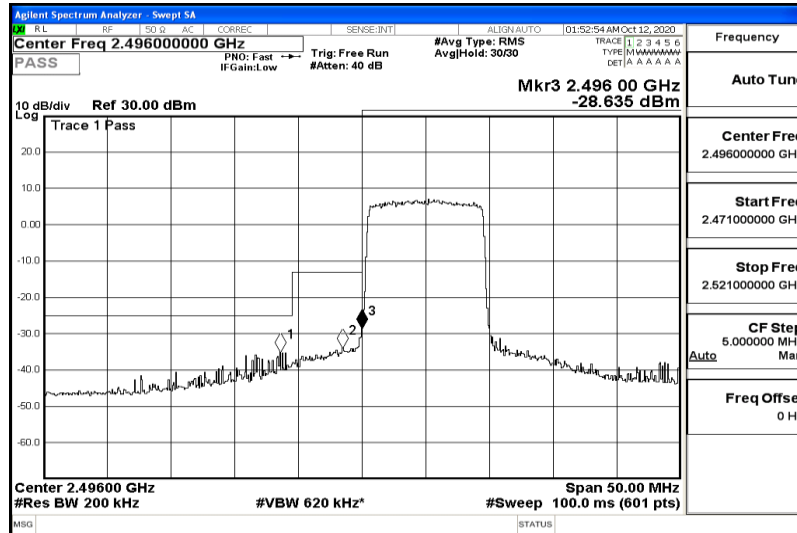
Start Freq 2.665000000 GHz

Stop Freq 2.715000000 GHz

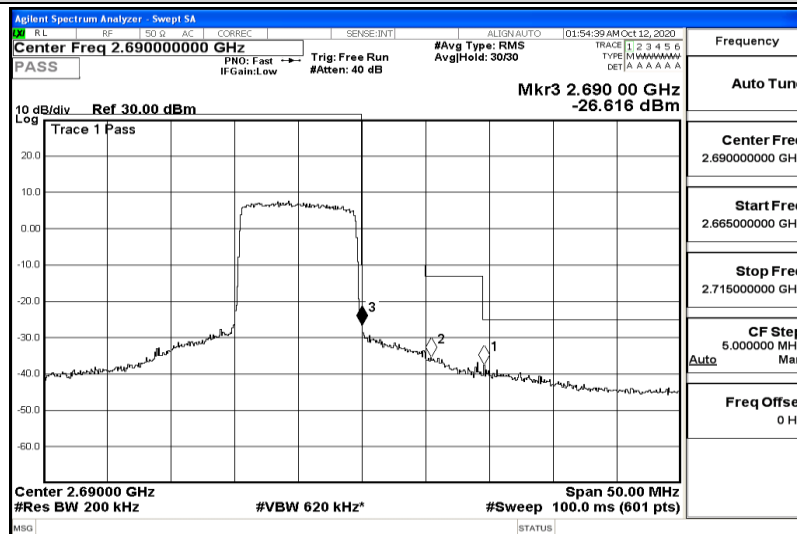
CF Step 5.000000 MHz

Freq Offset 0 Hz

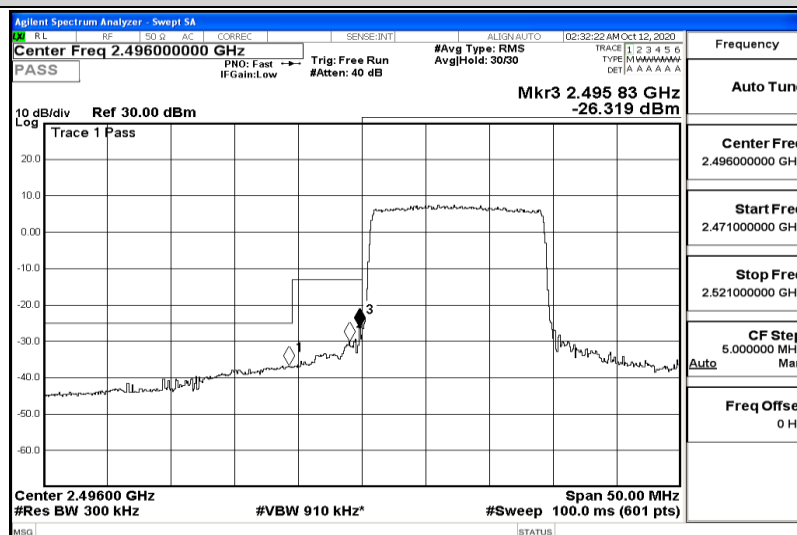
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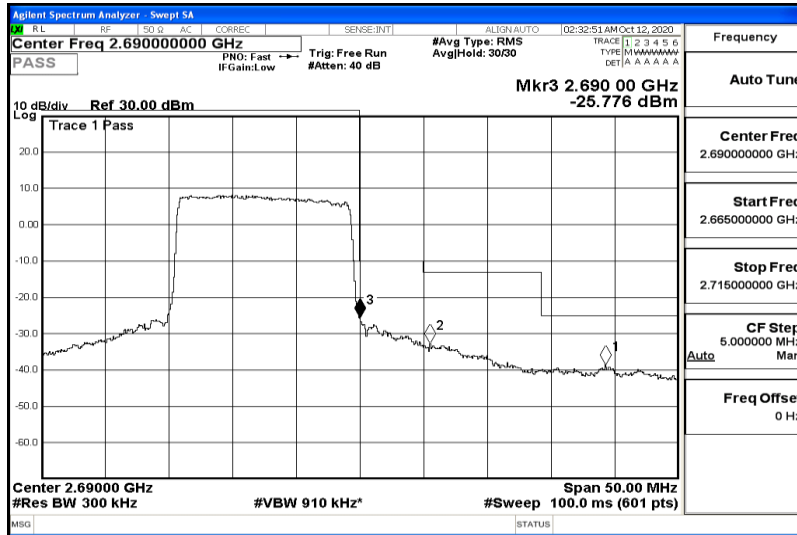
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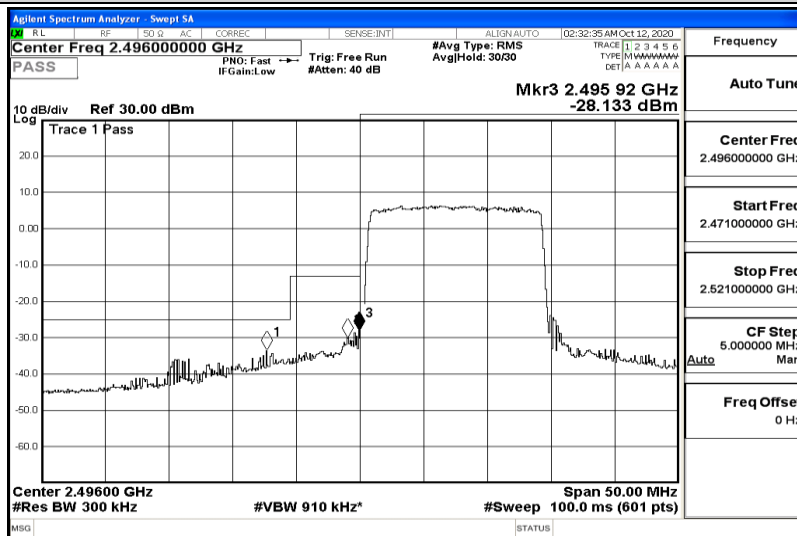
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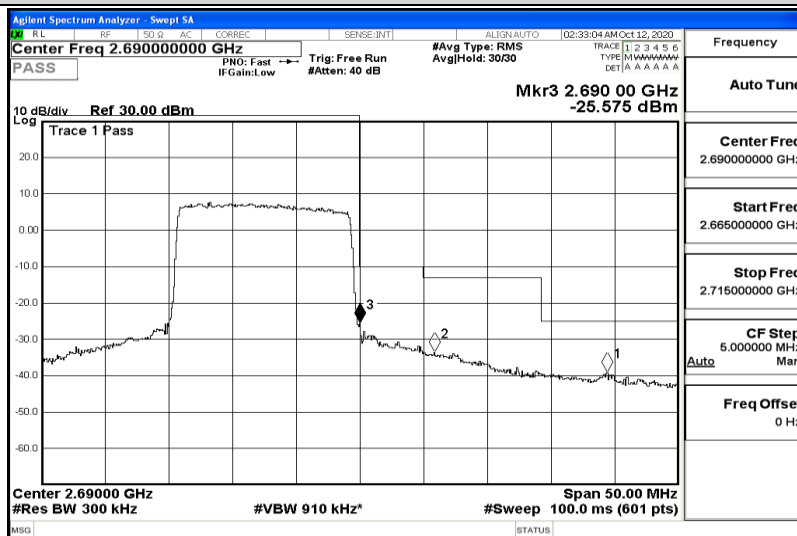
Band41-15MHz-QPSK-41515-75RB#0



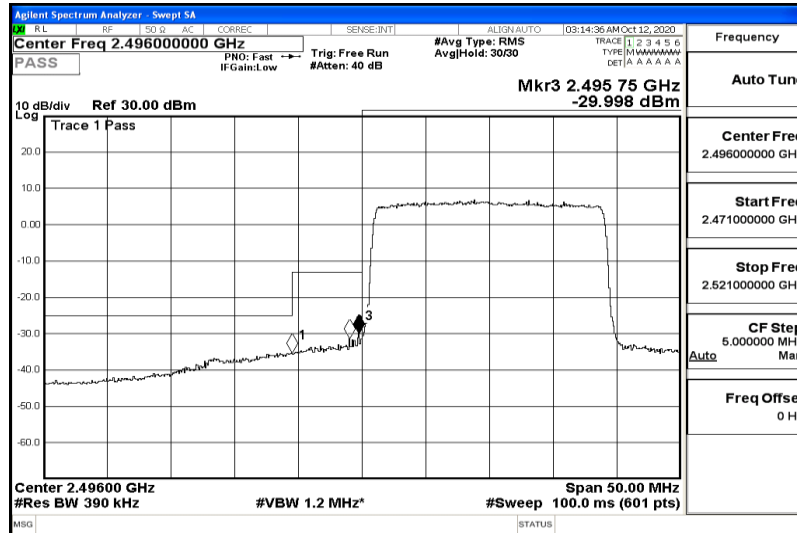
Band41-15MHz-16QAM-39725-75RB#0



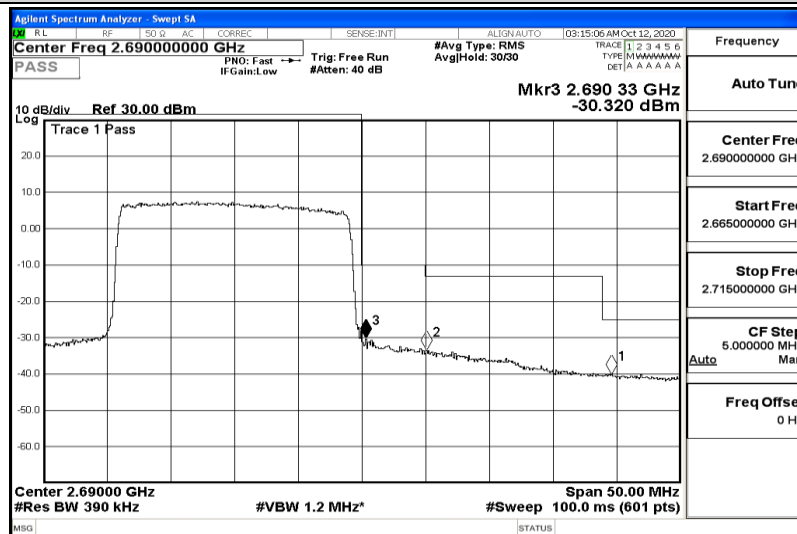
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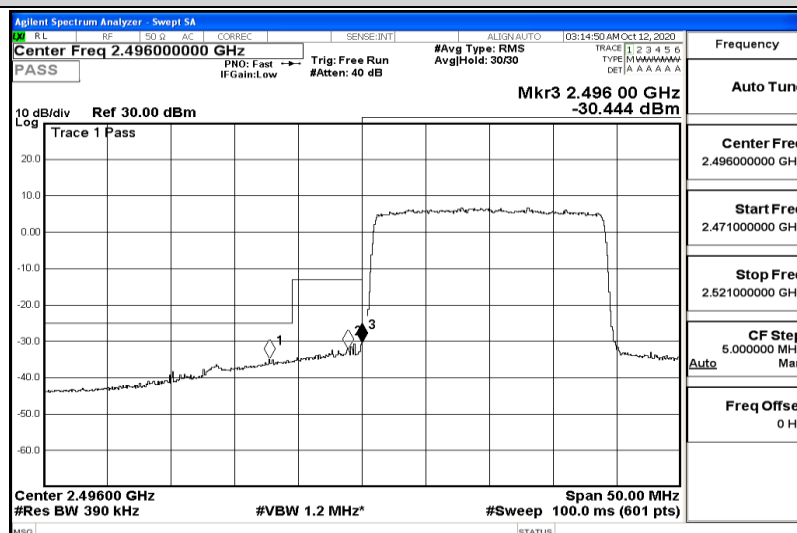
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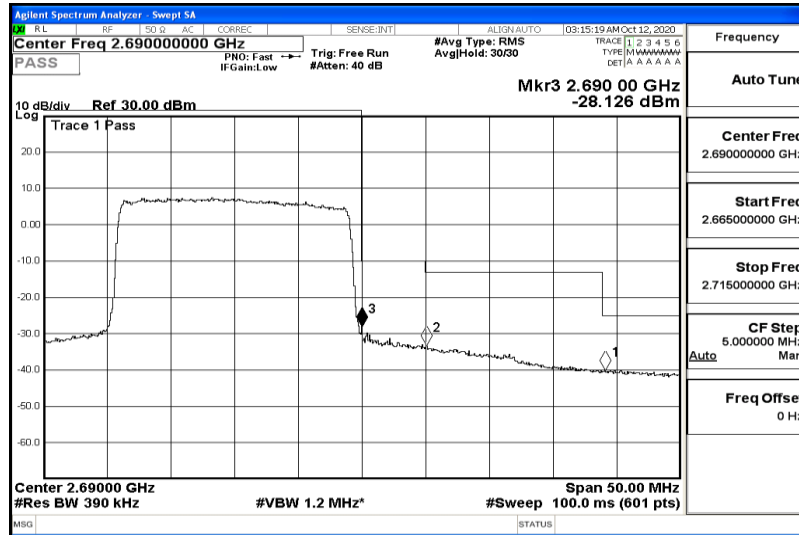
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Band41-20MHz-16QAM-39750-100RB#0

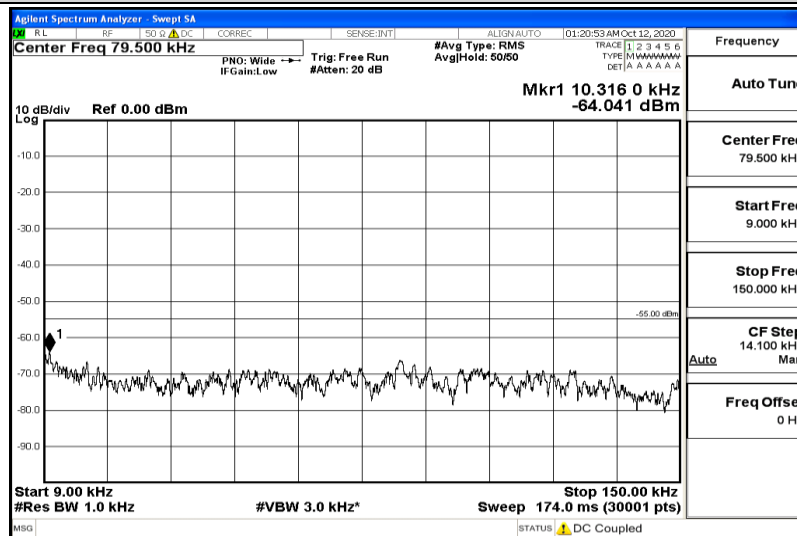


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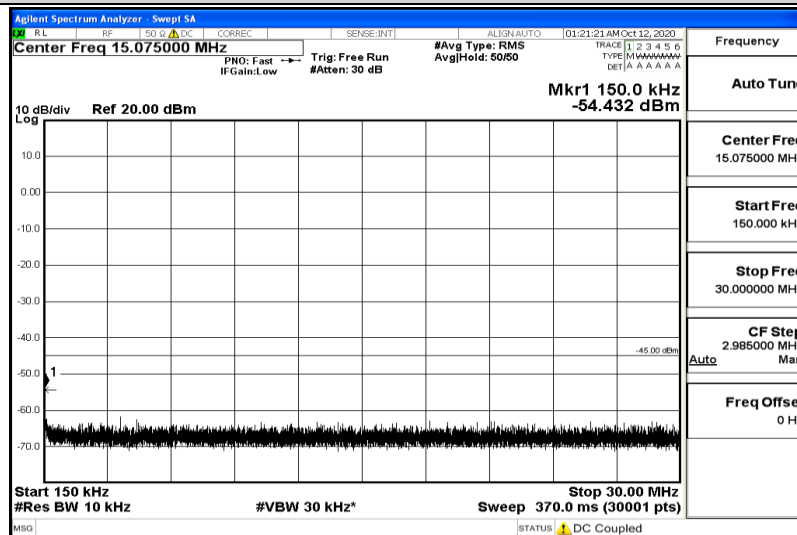


E.5 Conducted Spurious Emission

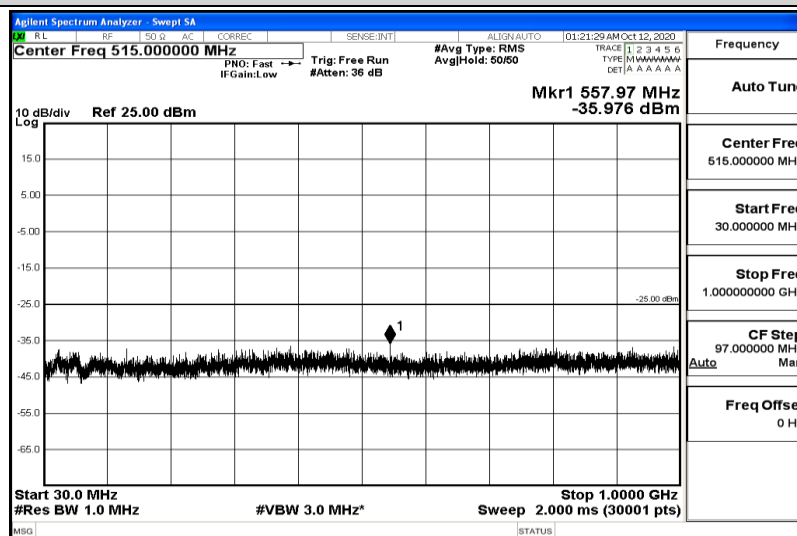
Band41-5MHz-QPSK-39675-1RB#0-Range1:0.009~0.15MHz



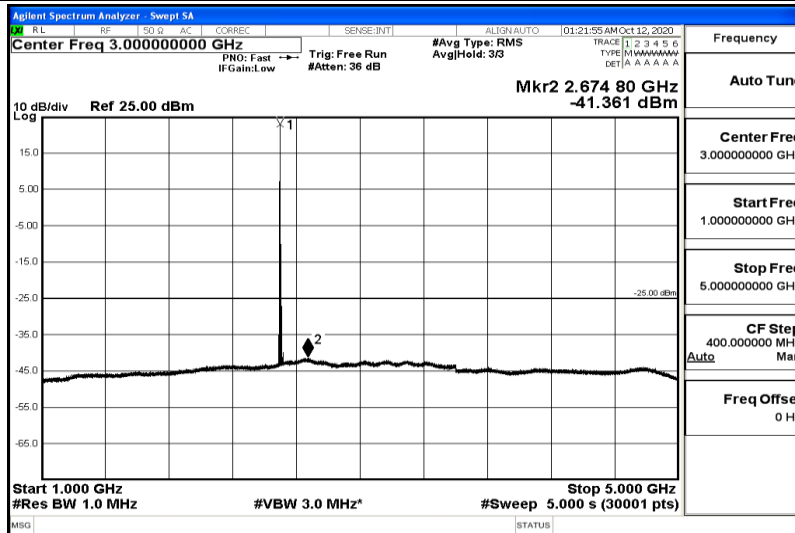
Band41-5MHz-QPSK-39675-1RB#0-Range2:0.15~30MHz



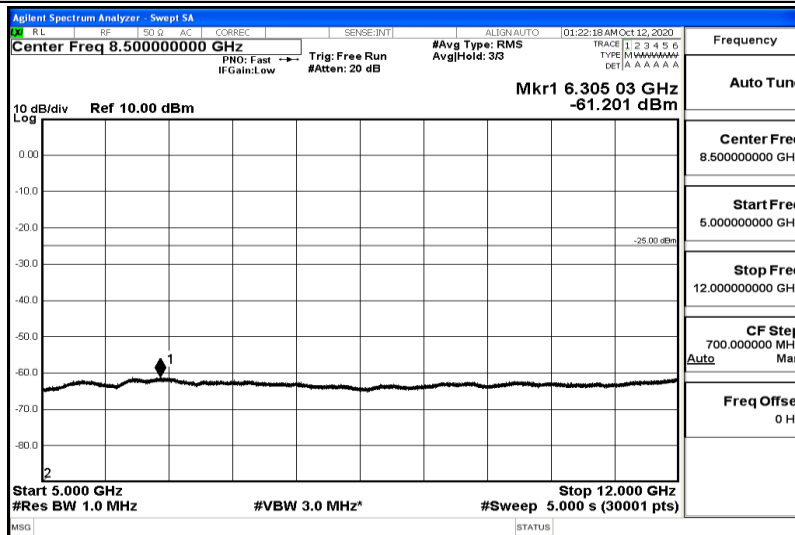
Band41-5MHz-QPSK-39675-1RB#0-Range3:30~1000MHz



Band41-5MHz-QPSK-39675-1RB#0-Range4:1000~5000MHz



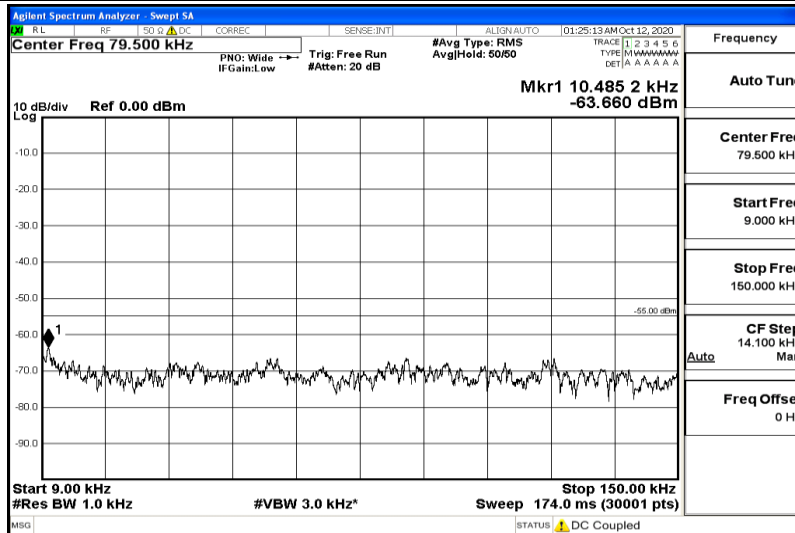
Band41-5MHz-QPSK-39675-1RB#0-Range5:5000~12000MHz



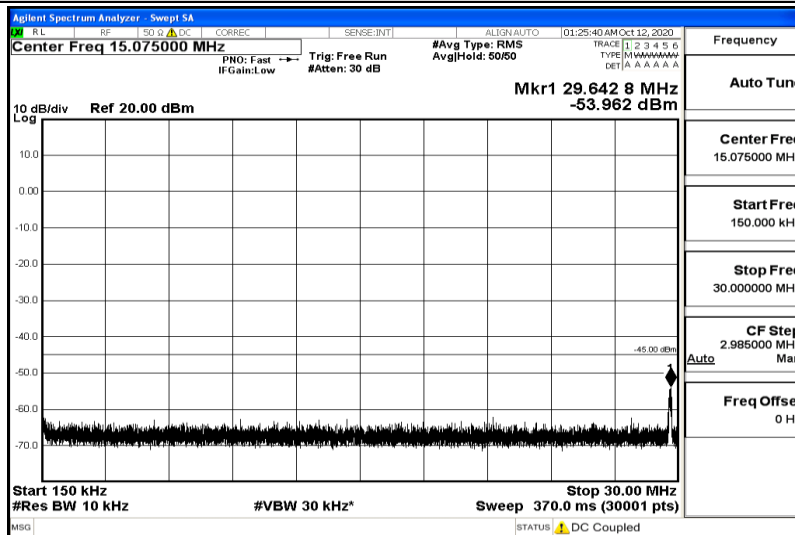
Band41-5MHz-QPSK-39675-1RB#0-Range6:12000~26500MHz



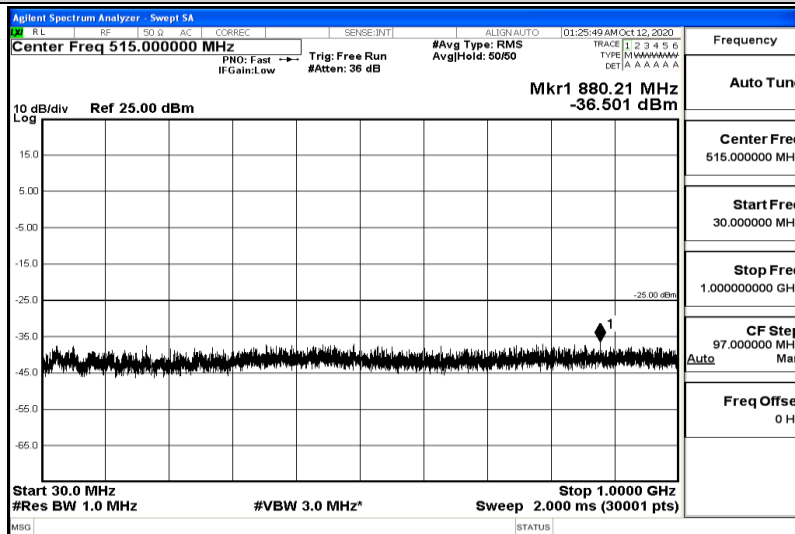
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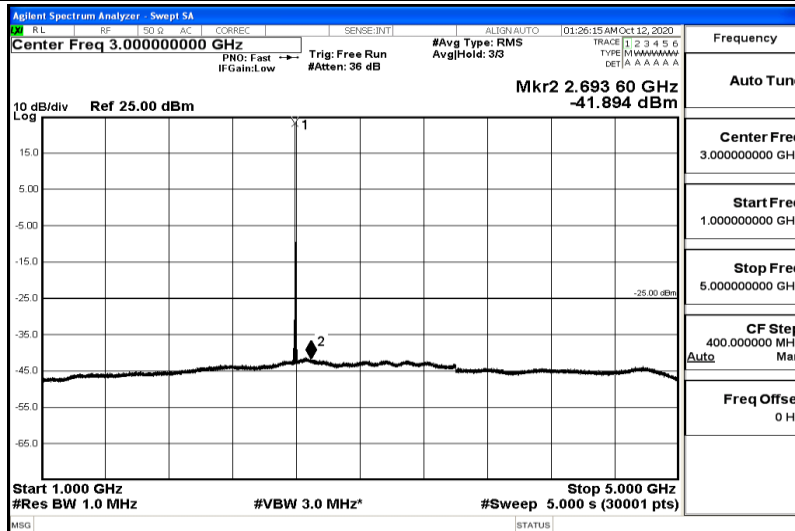
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Band41-5MHz-QPSK-40620-1RB#0-Range3:30~1000MHz



Band41-5MHz-QPSK-40620-1RB#0-Range4:1000~5000MHz



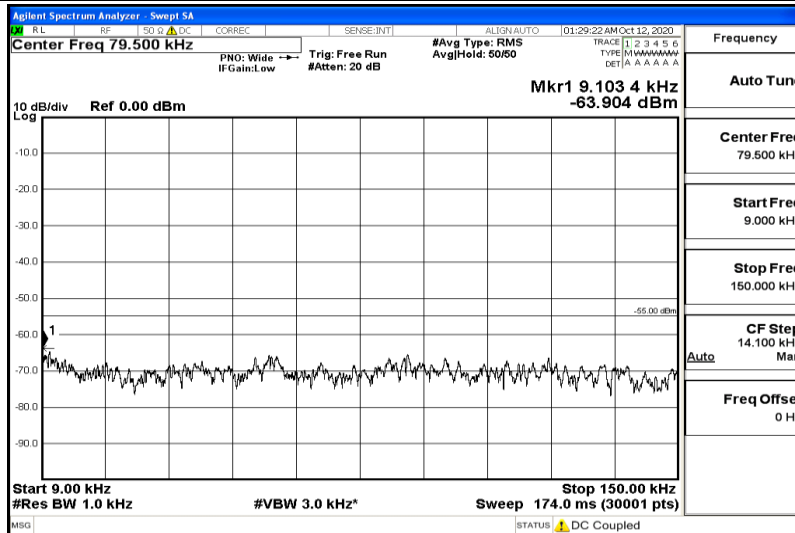
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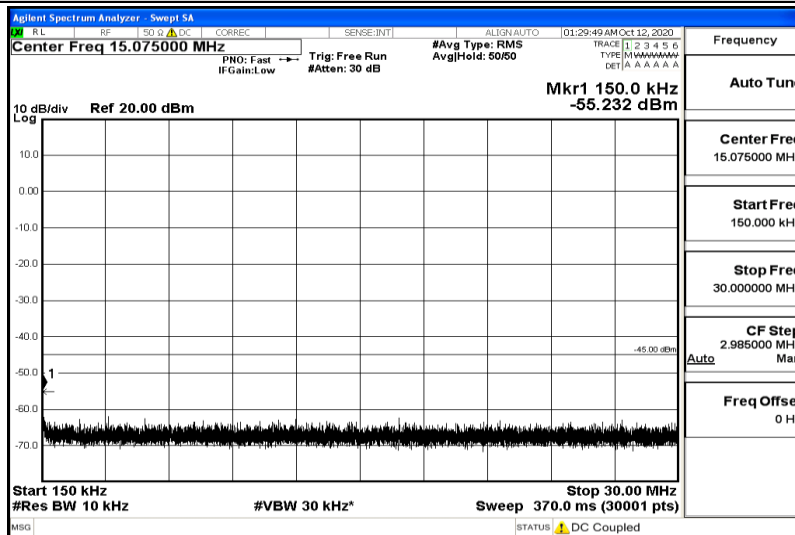
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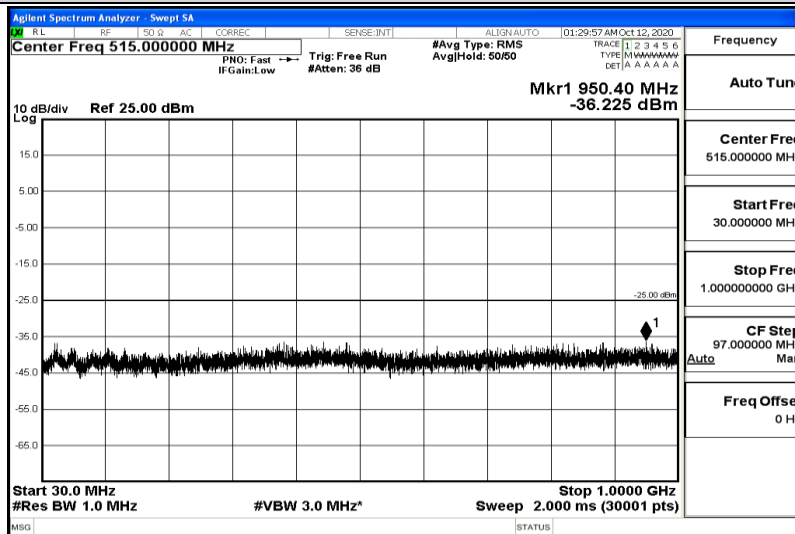
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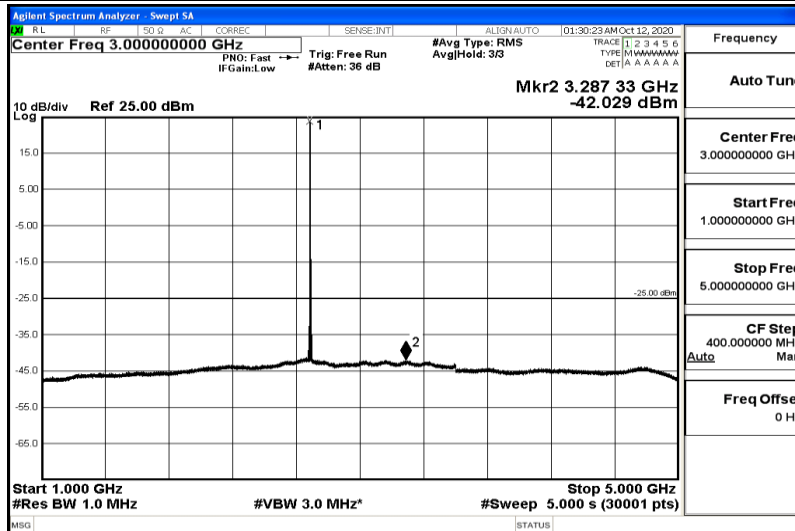
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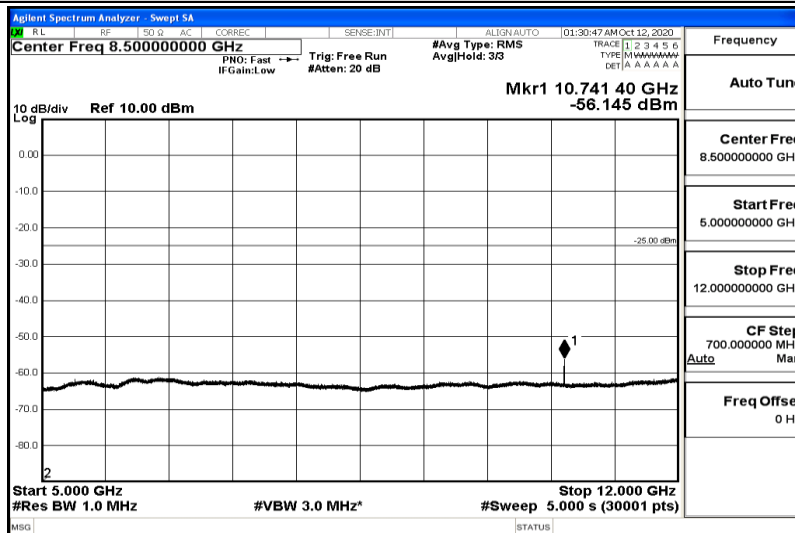
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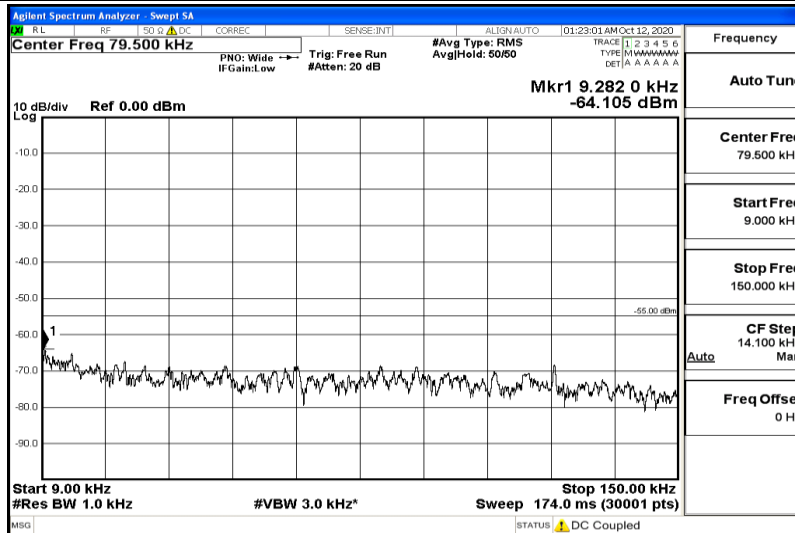
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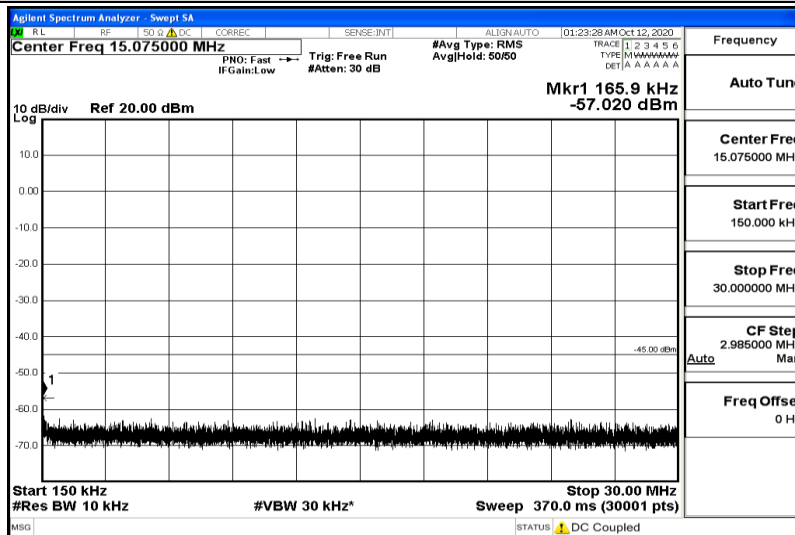
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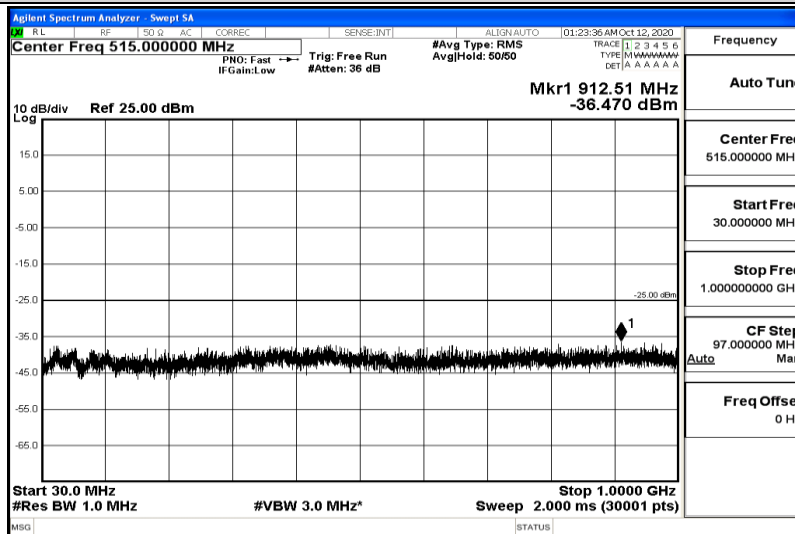
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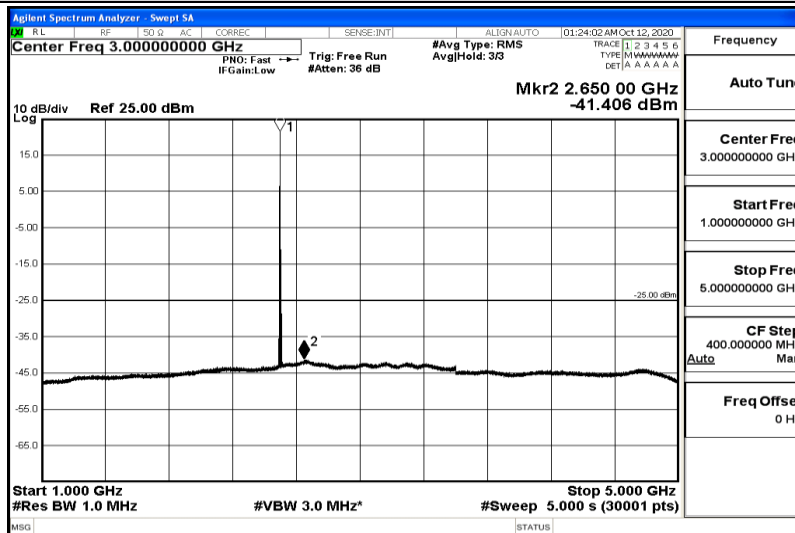
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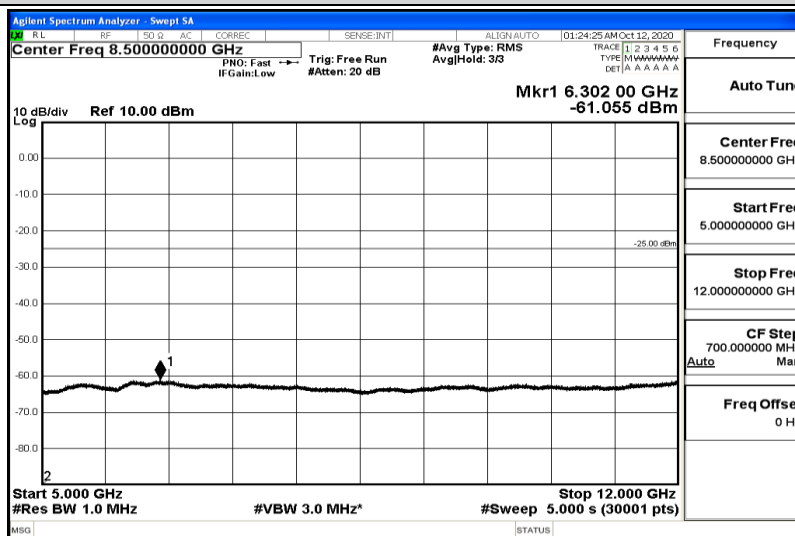
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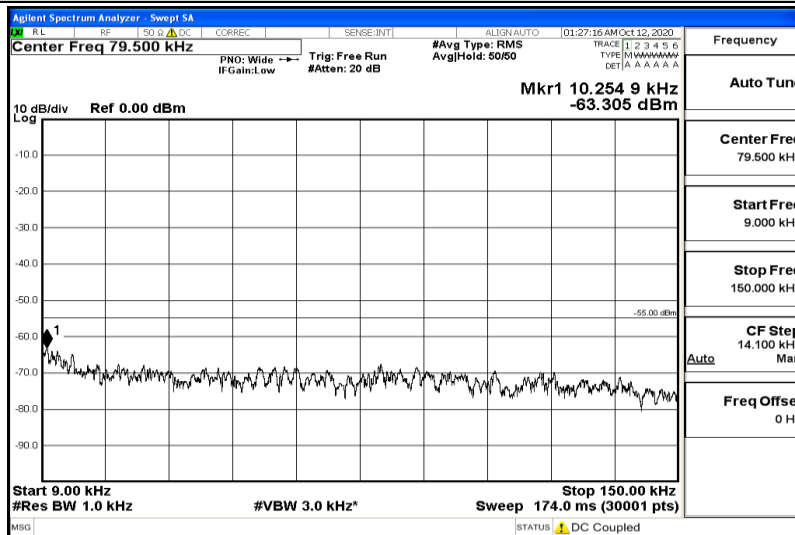
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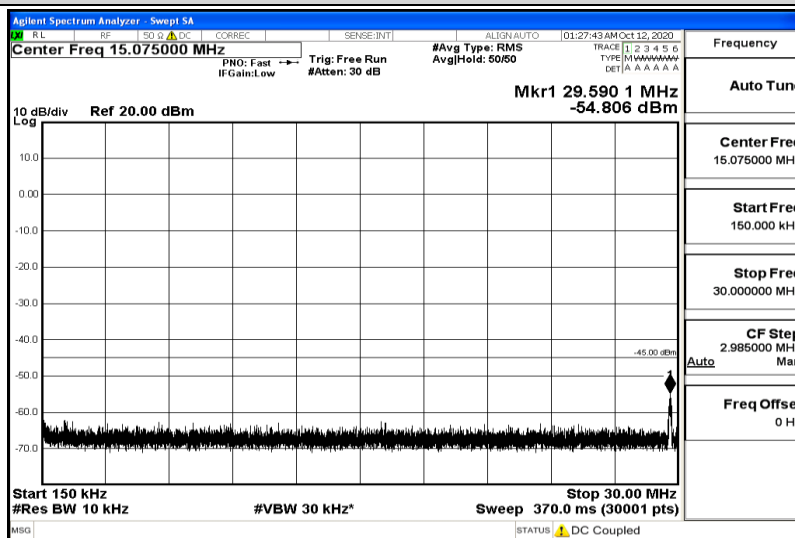
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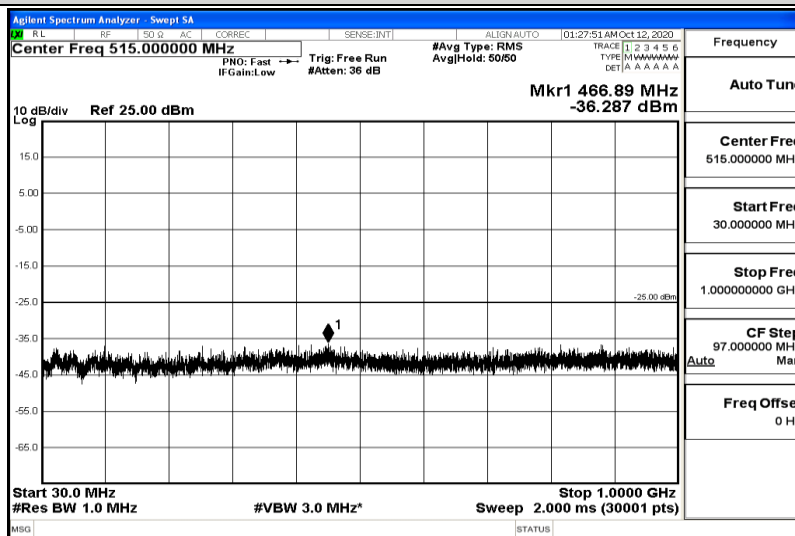
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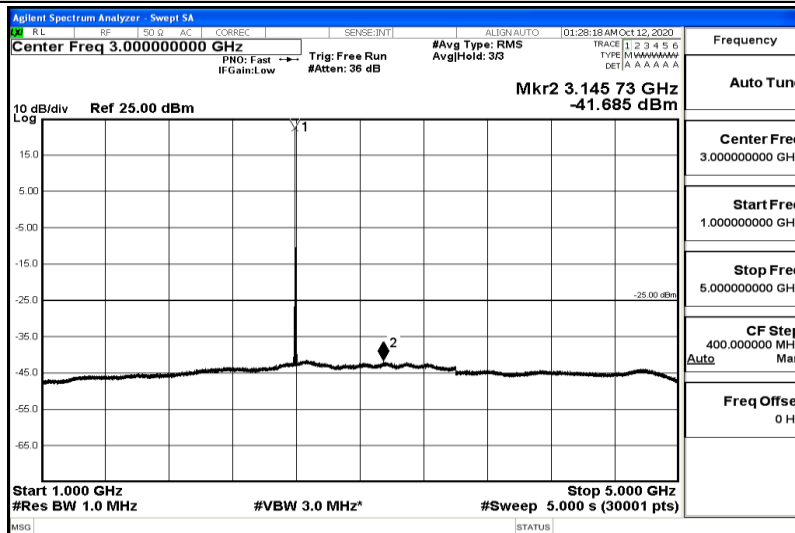
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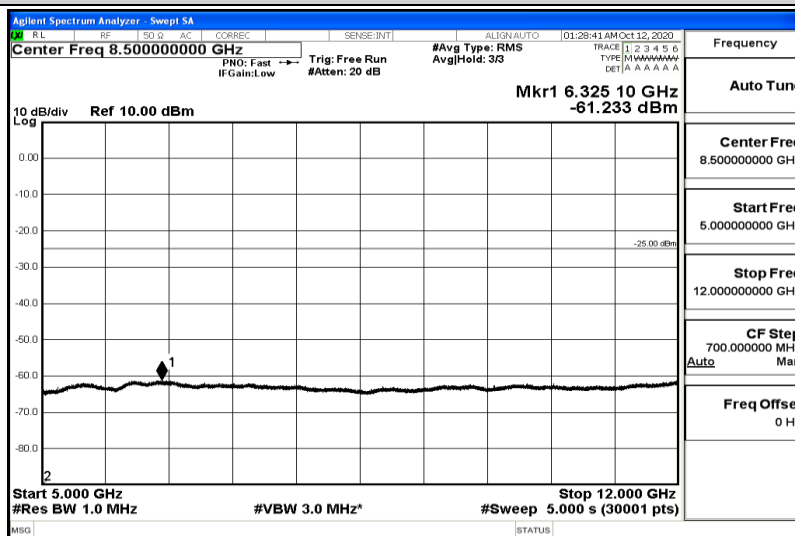
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Band41-5MHz-16QAM-40620-1RB#0-Range4:1000~5000MHz



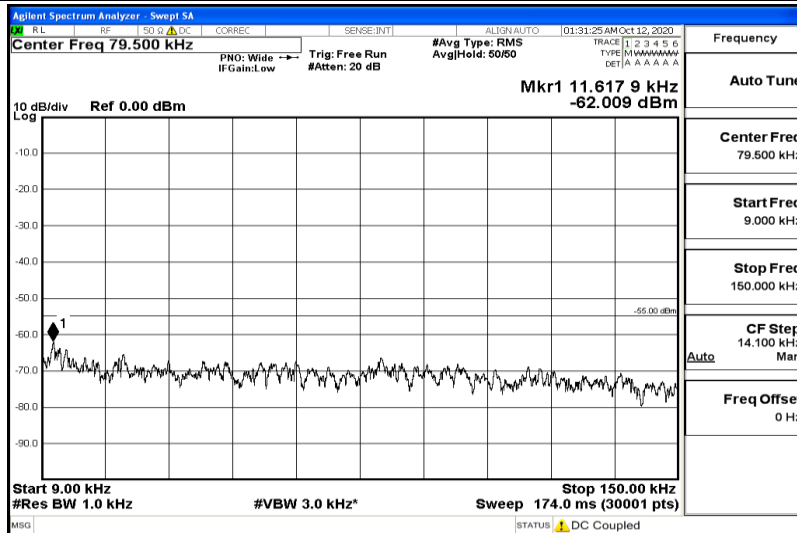
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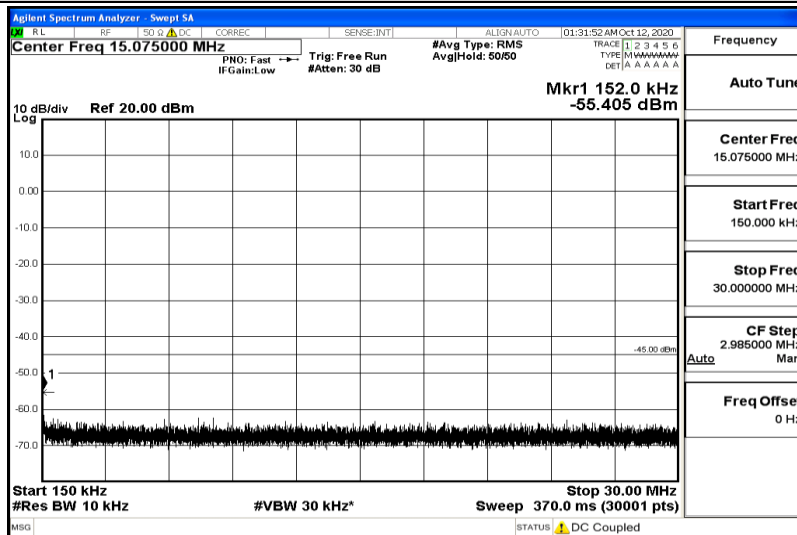
Band41-5MHz-16QAM-40620-1RB#0-Range6:12000~26500MHz



Band41-5MHz-16QAM-41565-1RB#0-Range1:0.009~0.15MHz



Band41-5MHz-16QAM-41565-1RB#0-Range2:0.15~30MHz



Band41-5MHz-16QAM-41565-1RB#0-Range3:30~1000MHz

